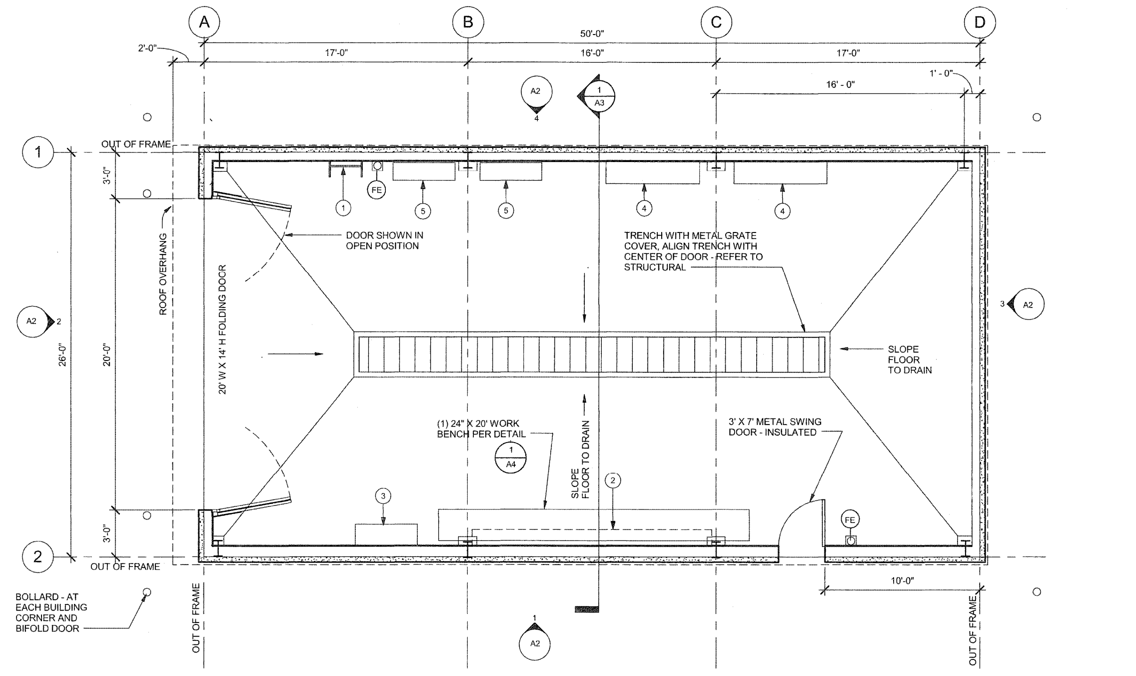
Date Revised:	4/1/2015 12:26:51 PM	Designed By:	JEM
Layout Name:	A1 FLOOR PLAN	Drawn By:	WVZ
File Path and Name:	C:\Users\nrochon\Documents\Hooper Bay1_NRochon.rvt	Checked By:	DDG

NOTE;

CONSTRUCTION SREB:

SREB # 1 SHALL BE A HEATED SREB

SREB #2 SHALL BE A HEATED SREB



FLOOR PLAN

1/4" = 1'-0"

0' 2' 4' 8'

22X34 SHEET 1/4" = 1'-0"
11X17 SHEET 1/8" = 1'-0"

CODE SYNOPSIS

2009 IBC AS AMENDED BY ALASKA DEPT. OF PUBLIC SAFETY

OCCUPANCY S-1 PARKING GARAGE (IBC 311.3)

CONSTRUCTION TYPE V-B COMBUSTIBLE WITH NO FIRE RESISTANCE
MINIMUM FIRE SEPARATION = 10' CLEAR OR GREATER (IBC 602)

FIRE SEPARATION DISTANCE (702); 10'
BUILDING FACE TO
1) CLOSEST INTERIOR LOT LINE
2) CENTER OF PUBLIC WAY
3) IMAGINARY LINE BETWEEN 2 BUILDINGS = 20'

ACTUAL AREA: 26' x 50' = 1,300 S.F.

S-1 OF V-B ALLOWABLE AREA = 13,500SF (IBC 503) = OK

FIRE SEPARATION NOT REQUIRED FOR FUEL - HEATING EQUIPMENT UNDER 400,000 BTU INPUT (IBC 508.2)

OCCUPANT EXIT LOAD (IBC 1004.1): 1,300SF/200 = 6.5 = SINGLE 36" HINGED EXIT DOOR ok (1015)

FOAM PLASTIC INSULATED WALL & ROOF PANELS SHALL COMPLY WITH IBC 2603 FOR NON-SPRINKLERED BUILDINGS

(FE) PROVIDE TWO EXTINGUISHERS WITH ENCLOSURE CABINETS: DRY CHEMICAL 2-A: 10-B;C MINIMUM WITH ALASKA FIRE MARSHAL - APPROVED SIGNS

SHEET NOTES

PROVIDE EQUIPMENT UNPACKED, ASSEMBLED AND READY TO USE; LOCATE WHERE DIRECTED BY OWNER

(1) PORTABLE LADDEF FURNISH ONE PORTABLE ALUMINUM ADJUSTABLE FREE STANDING A-FRAME LADDER 6 TO 11 FOOT A-FRAME HEIGHT RECOMMENDED BY MANUFACTURER FOR INDUSTRIAL HEAVY DUTY 300 POUND RATING. CERTIFIED ANSI A14 COMPLIANCE little giant.com - MODEL 26 OR EQUAL
INSTALL WITH STORAGE 1/8" X 3/4" GALVANIZED CHAIN AGAINST ON INSIDE WALL OF BUILDING WHERE DIRECTED BY OWNER.

(2) TW0 16" WIDE X 3/4" PLYWOOD SHELVES - BETWEEN FRAMING - 12" X 12" STEEL SHELF BRACKETS EVENLY SPACED AT 24" O.C. - 55" AND 68" FROM TOP TO FLOOR - PAINT SAME AS PLYWOOD WAINSCOT

(3) SPILL CONTAINMENT CABINET
14 GAGE STEEL 48" WIDE X 24" DEEP X 78" HIGH WITH 2 PAD LOCKABLE DOORS.
CENTER PARTITION, COAT ROD, FIXED TOP SHELF, 4 ADJUSTABLE SHELVES.
YELLOW ENAMEL PAINT FINISH WITH "SPILL CONTAINMENT CABINET" IN 2' HIGH LETTERS.
WWW.LKGOODWIN.COM MODEL ML248 OR EQUAL
INSTALL WHERE DIRECTED

(4) 2 EACH 5000 LB CAPACITY FLOOR MOUNT SINGLE SIDE CANTILEVER RACK:
(2) 8' HIGH UPRIGHTS
(1) BRACE SET BETWEEN UPRIGHTS; 6'
(10) 24" STRAIGHT ARMS WITH LIPS
ENAMEL PAINT FINISH
WWW.LKGOODWIN.COM SERIES 1000 OR EQUAL
INSTALL WHERE DIRECTED

(5) (2 EACH) CLOSED SHELF UNITS: 18 GAGE STEEL 48" WIDE X 24" DEEP 39" HIGH WITH CLOSED SIDES & BACK.
(3) INTERMEDIATE ADJUSTABLE SHELVES
GRAY ENAMEL PAINT FINISH
WWW.LKGOODWIN.COM IRONMAN OR EQUAL
INSTALL WHERE DIRECTED

AS-BUILT
3/1/18
Project Engineer Date
Hooper Bay Airport Improvements 57419

STATE OF ALASKA 49th John E. McCool No. 3534-A REGISTERED PROFESSIONAL ARCHITECT
04/04/2015
PLANS DEVELOPED BY:
MCG ARCHITECTS
PROJ. NO. 2010039.09

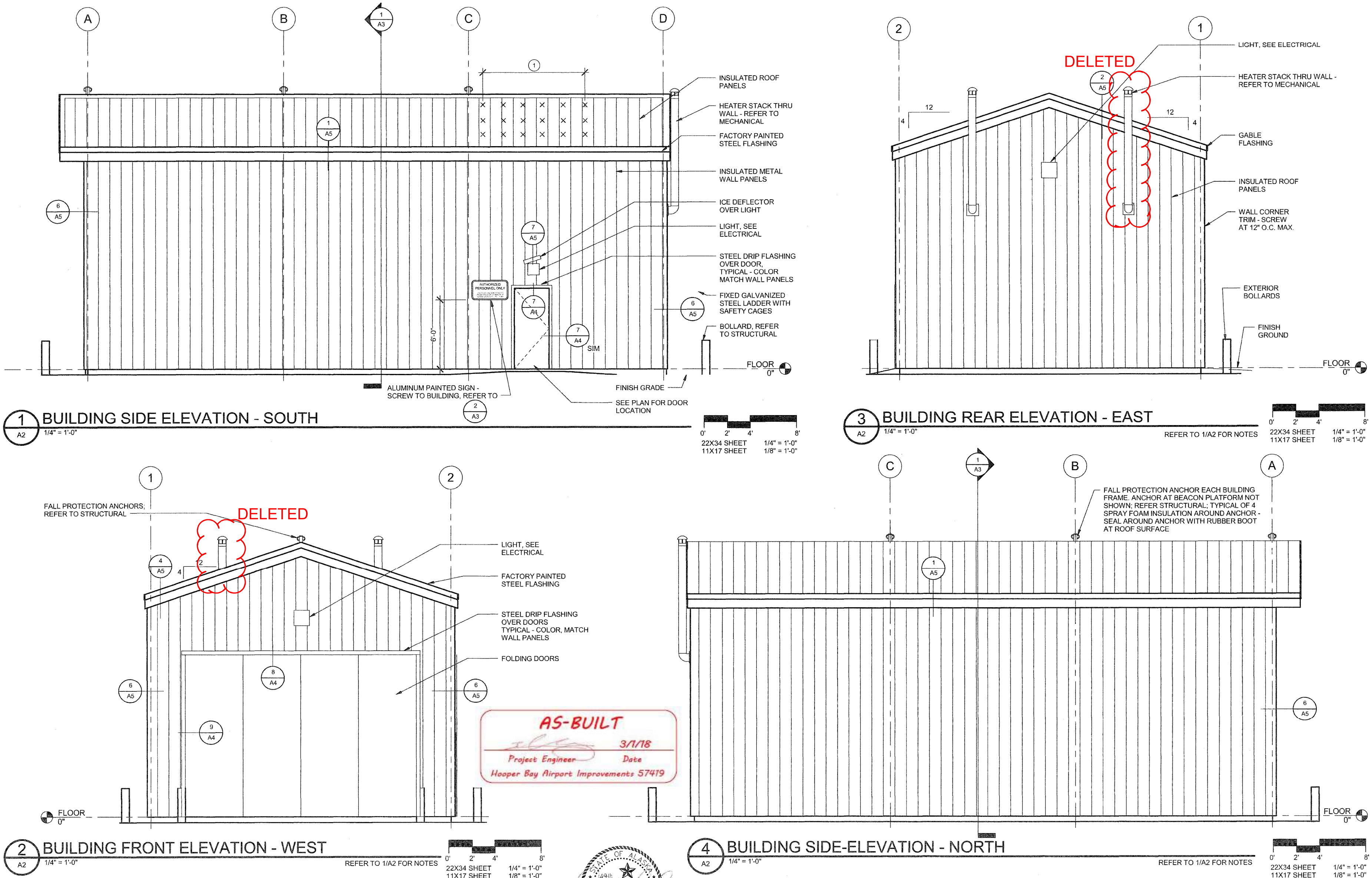
BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION

HOOPER BAY, AIRPORT
HOOPER BAY, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. 59276
AIP No. 3-02-0424-006-2014

FLOOR PLAN

DATE: 04/04/2015
SHEET: A1 OF A5
AS-BUILT SHEET;



SHEET NOTES

1. INSTALL ON ROOF CENTERED ABOVE MAN DOOR 4' UP FROM EAVE - SPACE 4' UP ROOF SLOPE

   2" TO 3" PROJECTION POLYCARBONATE PLASTIC RECOMMENDED BY MANUFACTURER TO HOLD SNOW ONTO SLOPING ROOFS ATTACH WITH MANUFACTURER APPROVED ADHESIVE

   POLAR BLOX, SNOWJAX, SNO GEM EQUAL

STATE OF ALASKA, 49th, John E. McCool, No. 3534-A, REGISTERED PROFESSIONAL ARCHITECT
04/04/2015

PLANS DEVELOPED BY:
MCG ARCHITECTS
PROJ. NO. 2010039.09

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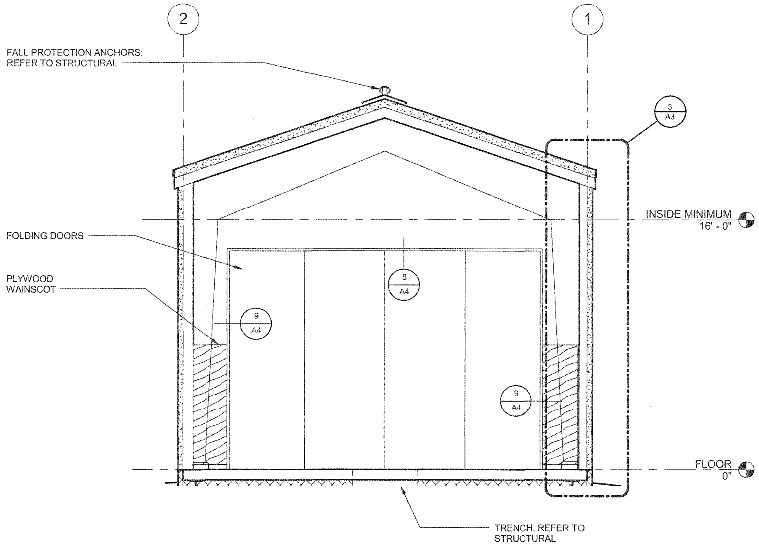
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION

HOOPER BAY, AIRPORT
HOOPER BAY, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. 59276
AIP No. 3-02-0424-006-2014
EXTERIOR ELEVATIONS

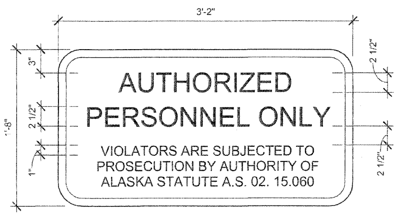
DATE: 04/04/2015
SHEET: A2 OF A5
AS-BUILT SHEET:

Date Revised: 4/1/2015 12:27:01 PM
Layout Name: A2 EXTERIOR ELEVATIONS
File Path and Name: C:\Users\nrochon\Documents\Hooper Bay1_NRochon.rvt
Designed By: JEM
Drawn By: WVZ
Checked By: DDG



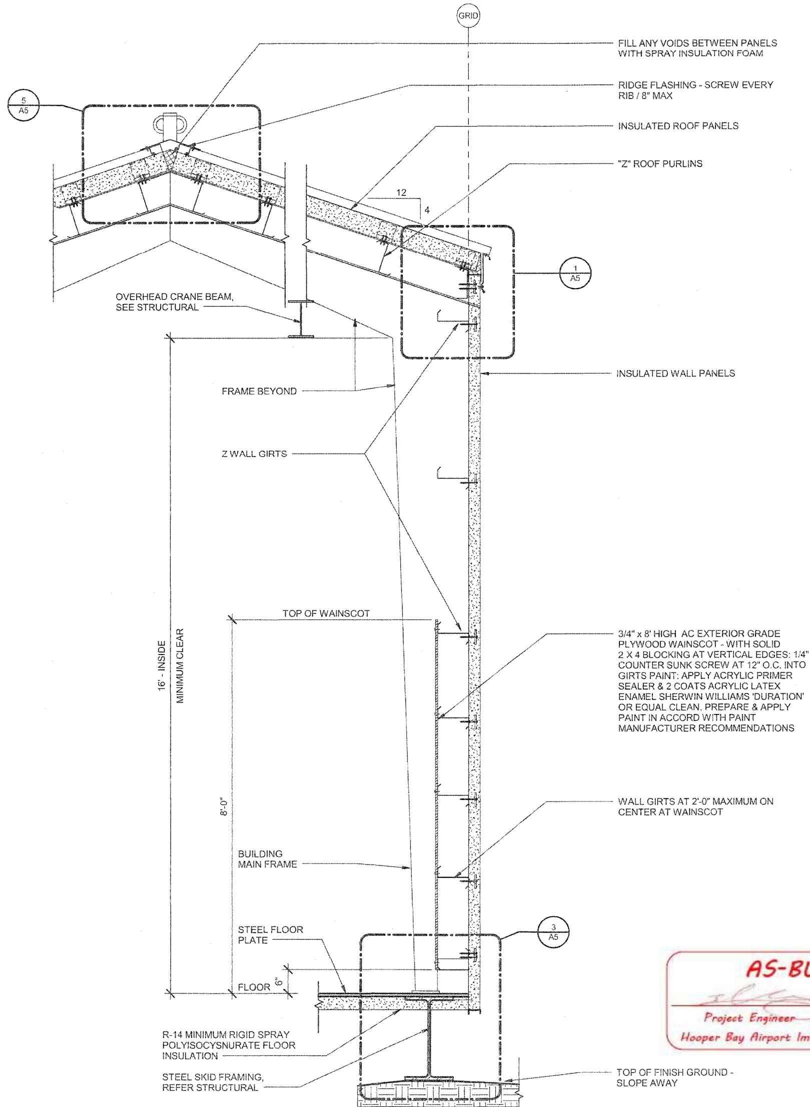
1 CROSS SECTION
A3
1/4" = 1'-0"

0' 2' 4' 8'
22X34 SHEET 1/4" = 1'-0"
11X17 SHEET 1/8" = 1'-0"



NOTE: PROVIDE SIGN FOR EACH SREB. SIGNS SHALL BE SUBSIDIARY TO PAY ITEM S-142

2 SIGN MESSAGE
A3
1 1/2" = 1'-0"



AS-BUILT
3/1/18
Project Engineer Date
Hooper Bay Airport Improvements 57419

3 TYPICAL WALL SECTION
A3
3/4" = 1'-0"

0' 1' 2' 4'
22X34 SHEET 3/4" = 1'-0"
11X17 SHEET 3/8" = 1'-0"

04/04/2015
PLANS DEVELOPED BY:
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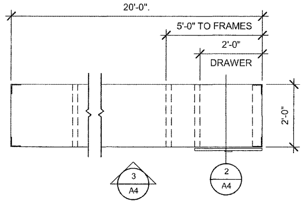
PROJ. NO. 2010039.09

BY	DATE	REVISION

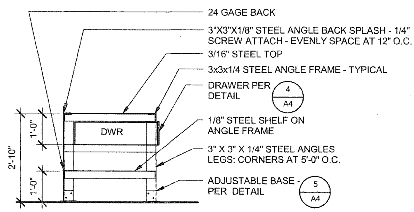
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION

HOOPER BAY, AIRPORT
HOOPER BAY, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. 59276
AIP No. 3-02-0424-006-2014
BUILDING SECTIONS

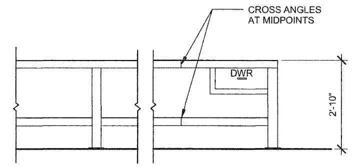
DATE: 04/04/2015
SHEET: A3 OF A5
AS-BUILT SHEET:



1 WORK BENCH PLAN
A4 1/2" = 1'-0"



2 WORK BENCH SECTION
A4 1/2" = 1'-0"



3 WORK BENCH FRONT
A4 1/2" = 1'-0"

WORK BENCH SPECIFICATIONS

INSTALL WHERE INDICATED ON FLOOR PLAN

FRAME: 3 x 3 x1/4" STEEL ANGLES - WELD 3/16" FILLET AT CONNECTIONS

TOP: 3/16" STEEL PLATE

SHELF: 1/8" STEEL PLATE

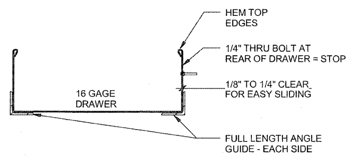
BACK: 24 GAGE STEEL SHEET

(TOP, SHELF, BACK:) 1/4" ROUND HEAD THRU BOLT ATTACH - EVENLY SPACE AT 12" MAXIMUM

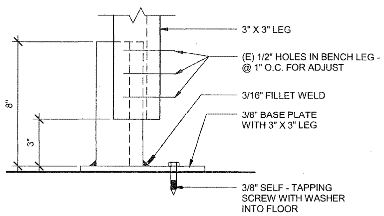
DRAWER: BOTTOM AND SIDES: 16 GAGE GALVANIZE SHEET STEEL BEND OR WELDED - HEM TOP EDGES
PULL: 6x5/16" WIRE: STANLEY 4486 OR EQUAL

EDGES: SMOOTH EDGES BY GRINDING - FREE FROM SHARP SURFACES

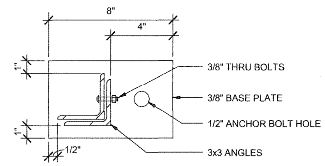
FINISH: SHOP APPLY: SOLVENT CLEAN POWER GRIND OR GRIT BLAST CLEAN, PRIME AND EPOXY ENAMEL PAINT



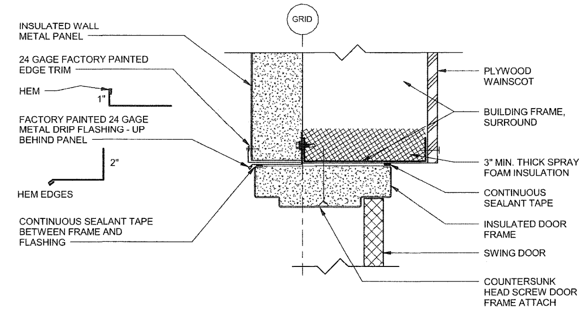
4 WORK BENCH DRAWER
A4 1 1/2" = 1'-0"



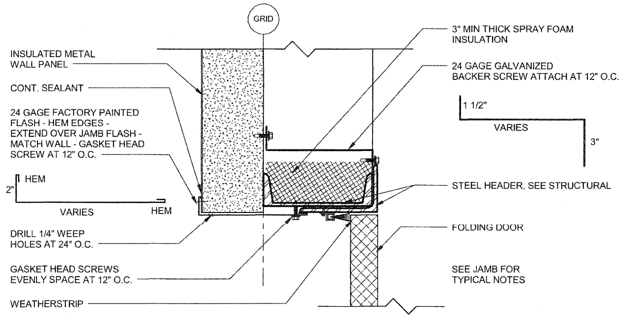
5 WORK BENCH LEG
A4 3" = 1'-0"



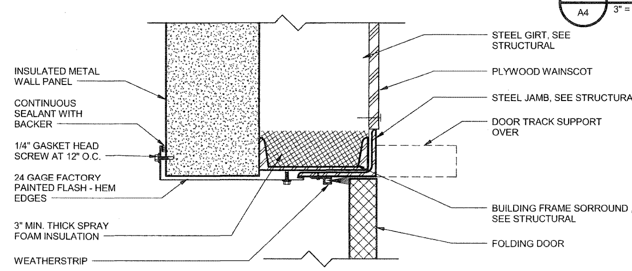
6 WORK BENCH LEGS BASE PLATE
A4 3" = 1'-0"



7 HINGED DOOR HEAD - JAMB SIMILAR
A4 3" = 1'-0"



8 FOLDING DOOR HEAD
A4 3" = 1'-0"



9 FOLDING DOOR JAMB
A4 3" = 1'-0"

AS-BUILT
3/1/18
Project Engineer — Date
Hooper Bay Airport Improvements 57419

STATE OF ALASKA 49th — John C. McCool — No. 3534-A — REGISTERED PROFESSIONAL ARCHITECT
04/04/2015
PLANS DEVELOPED BY: MCG ARCHITECTS
PROJ. NO. 2010039.09

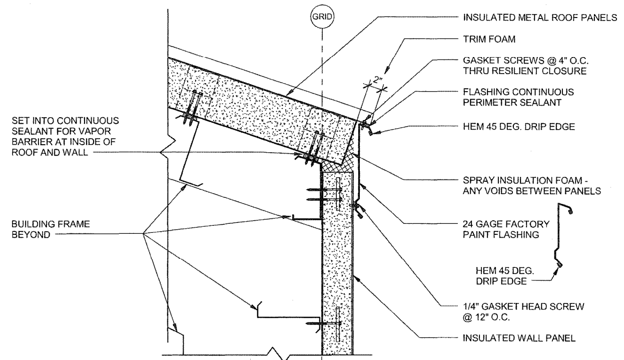
BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION

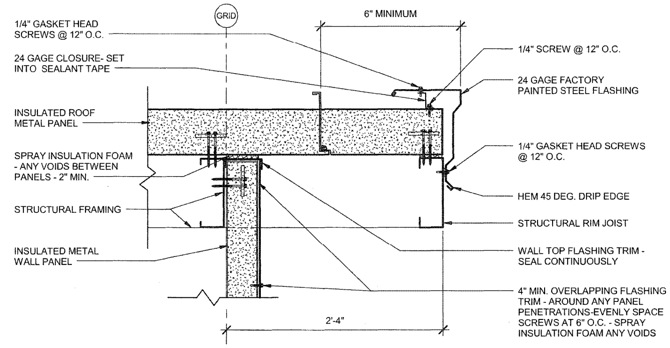
HOOPER BAY, AIRPORT
HOOPER BAY, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. 59276
AIP No. 3-02-0424-006-2014
DETAILS

DATE: 04/04/2015
SHEET: A4 of A5
AS-BUILT SHEET:

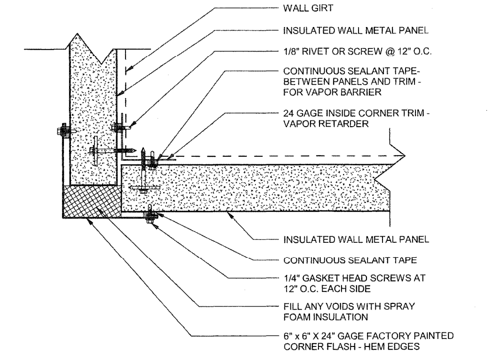
Designed By: Designer
Drawn By: WVZ
Checked By: DDC
Date Revised: 4/1/2015 12:27:19 PM
Layout Name: A4 DETAILS
File Path and Name: C:\Users\...\Documents\Hooper Bay1_NRechon.rvt



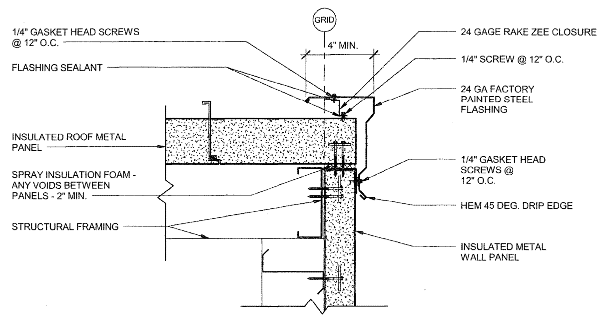
1 ROOF EAVES
A5 1 1/2" = 1'-0"



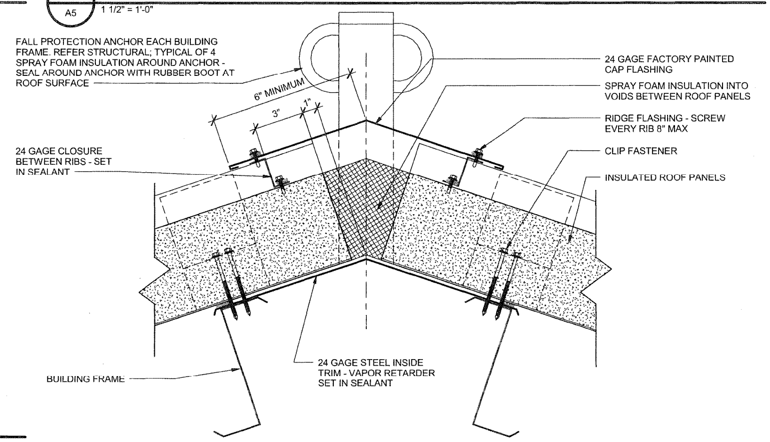
4 ROOF OVER AT OVERHEAD DOOR
A5 1 1/2" = 1'-0"



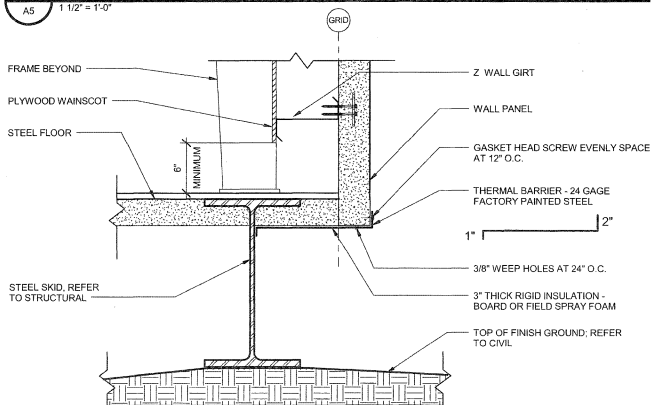
6 CORNER AT WALL PANEL
A5 3" = 1'-0"



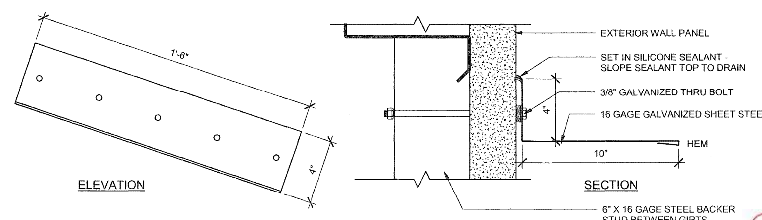
2 ROOF RAKE
A5 1 1/2" = 1'-0"



5 RIDGE
A5 3" = 1'-0"



3 BASE DETAIL
A5 1 1/2" = 1'-0"



7 LIGHT ICE DEFLECTOR DETAIL
A5 3" = 1'-0"

AS-BUILT
3/1/18
Project Engineer Date
Hooper Bay Airport Improvements 57419

STATE OF ALASKA
John E. McCool
No. 3534-A
04/04/2015
PLANS DEVELOPED BY: MCG ARCHITECTS
PROJ. NO. 2010039.09

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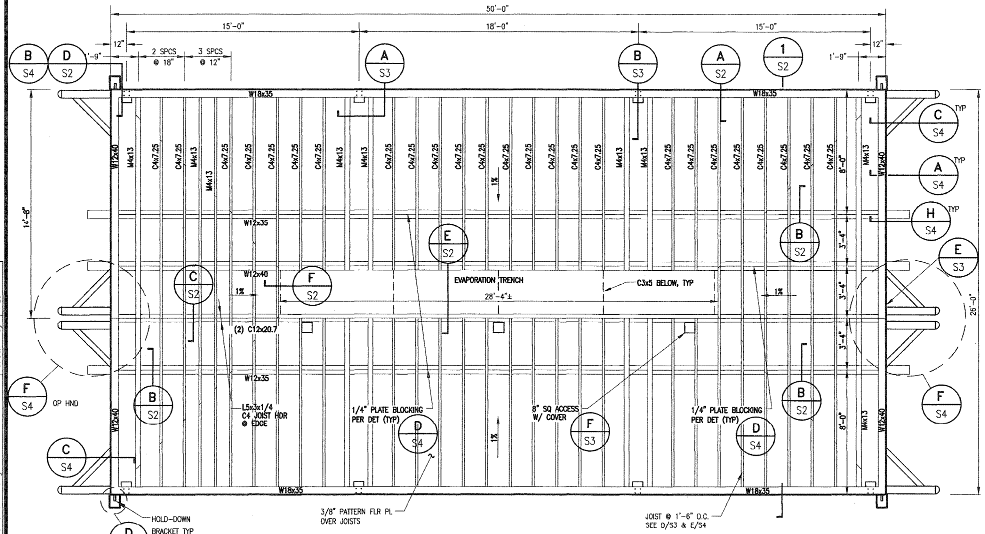
HOOPER BAY, AIRPORT
HOOPER BAY, ALASKA
AIRPORT IMPROVEMENTS
PROJECT No. 59276
AIP No. 3-02-0424-006-2014
DETAILS

DATE: 04/04/2015
SHEET: A5 OF A5
AS-BUILT SHEET

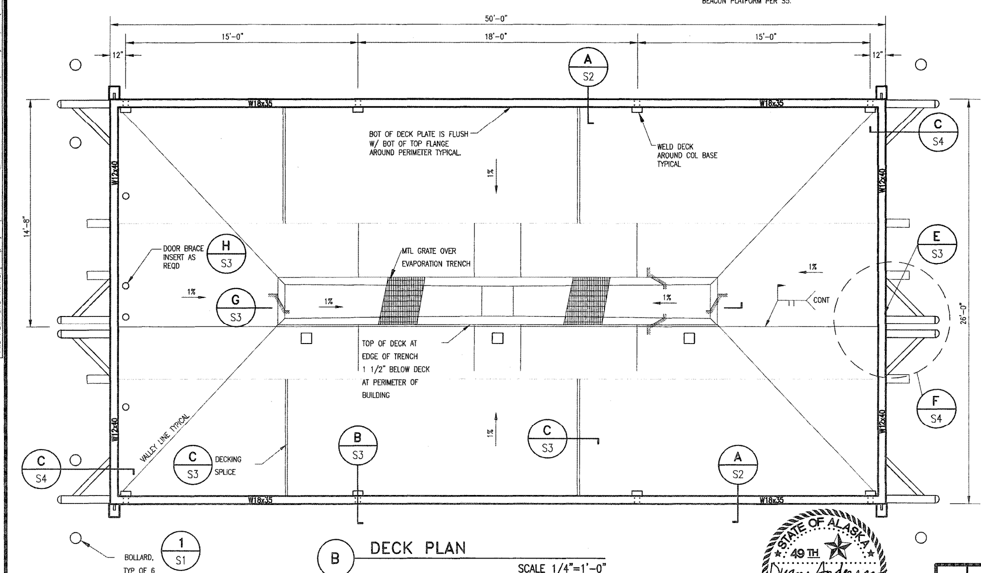
Date Revised: 4/1/2015 12:27:26 PM
Layout Name: A5 DETAILS
File Path and Name: C:\Users\...\Documents\Hooper Bay1_NRuchon.rvt
Designed By: JEM
Drawn By: WVZ
Checked By: DDG



A FRAMING PLAN

SCALE 1/4"=1'-0"

NOTE:
PROVIDE TWO SREB BUILDINGS AS SHOWN ON SHEETS S1 TO S4.
SREB BUILDING NO. 1 SHALL HAVE A BEACON PLATFORM PER S5.



B DECK PLAN

SCALE 1/4"=1'-0"

NOTE:
PROVIDE TWO SREB BUILDINGS AS SHOWN ON SHEETS S1 TO S4.

CODE:
2009 IBC

DESIGN LOADS:

FLOOR: 200 PSF
ROOF LIVE LOAD: 20 PSF
ROOF SNOW LOAD: P_g = 50 PSF
P_f = 35 PSF
C_e = .8
I = 1.0
C_t = 1.0
SNOW DRIFT PER ASCE 7

WIND LOADS: WIND SPEED: 130 MPH (3-SECOND GUST)
I = 1.0
EXPOSURE D
C_{pi} = +0.18 / −0.18
a = 3'

C&C: ZONE PER IBC (WIND PRESSURE IN PSF BASED ON 10 SF AREA)

ZONE 1	ZONE 2	ZONE 3	ZONE 4	ZONE 5
27/−43	27/−75	27/−110	47/−51	47/−63

EARTHQUAKE DESIGN:
I = 1.0
RISK CATEGORY: I
SITE CLASS: D
S_S = .13g S_1 = .06g
S_{DS} = .14g S_{D1} = .09g
SEISMIC DESIGN CATEGORY = B
OMEGA = 3.0
SEISMIC FORCE RESISTING SYSTEM: STEEL ORDINARY MOMENT FRAME
V = 2 KIPS
C_s = .05*W (STRENGTH DESIGN)
R= 3.5
ANALYSIS PROCEDURE: EQUIV LATERAL FORCE

FLOOD DESIGN: N/A (ON AIRPORT APRON − HIGHEST GROUND AVAILABLE)
SPECIAL LOADS: MINIMUM COLATERAL LOAD =5 PSF
AT MONORAIL HOIST: 2 TONS

MATERIALS

COMPLY WITH BUY AMERICAN ACT.

STRUCTURAL STEEL AND CONNECTORS:

1. STRUCTURAL STEEL SHALL CONFORM TO IBC CHAPTER 22, FOR ASTM SPECIFICATION A-36, Fy = 36 ksi EXCEPT WHERE NOTED OTHERWISE. ROLLED SHAPES SHALL BE ASTM A992, 50 ksi YIELD.
2. STEEL TUBING (TS) SHALL CONFORM TO ASTM A500, GRADE B, Fy = 46 ksi.
3. DESIGN FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE IBC CHAPTER 22, DIVISION IX, ALLOWABLE STRESS DESIGN.
4. ALL BOLTS (UON) SHALL BE A325 HIGH STRENGTH BOLTS IN CONFORMANCE WITH AISC STANDARD "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS".
5. MACHINE BOLTS SHALL CONFORM TO ASTM 307, UNLESS NOTED OTHERWISE AND SHALL BE PROVIDED STANDARD HEX HEAD NUTS CONFORMING TO ASTM A563, GRADE A AND CIRCULAR STEEL WASHERS CONFORMING TO ASTM F436.
6. WELDING PER AWS 1.1 WITH E70 ELECTRODES.
7. METAL GRATE: 2"x5/16" BRG BARS @ 1 3/8" C/C, w/ WELDED CROSS BARS 3/4"x3/16" @ 4" C/C, ENDS BANDED w/ 1/8" FLAT BAR, HOT DIP GALVANIZED, FABRICATE IN 2' MAX LENGTHS.
8. PROVIDE ADEQUATE LATERAL BRACING FOR STRUCTURE DURING FABRICATION. PLAN WELDING SEQUENCE TO ELIMINATE WARPAGE OF SKID.

INSULATION:

1. AT UNDERSIDE OF FLOOR PLATE & ON JOIST FRAMING: SPRAY APPLY "URETHANE" FOAM INSULATION TO "R-14" CAPACITY AFTER FABRICATION PER SPEC 07201.

PAINTING:

1. PAINT ALL COMPONENTS PER SPEC SECTION 05121. FLOOR COLOR SHALL BE GRAY.

SKID ACCEPTANCE:

1. PRIOR TO ACCEPTANCE OF THE SREB SKIDS FOR SHIPPING FROM THE POINT OF FABRICATION, THE PERIMETER MEMBERS OF THE SKID FRAMEWORK FOR STRAIGHTNESS. WARPAGE OF THE SKID FRAME EXCEEDING 1/2" (ASSUMING THE BASE LINE IS A STRAIGHT LINE BETWEEN THE ENDS OF THE SKID DECK) SHALL BE CAUSE FOR REJECTION OR SHALL REQUIRE REPAIRS BY THE FABRICATOR TO MEET SUCH TOLERANCE. PROVIDE COPY OF MEASUREMENTS WITH CERTIFICATION LETTER BY QC MANAGER.
2. PRIOR TO ACCEPTANCE OF THE SREB SKIDS FOR ASSEMBLY OF THE BUILDING STRUCTURAL FRAMEWORK, THE PERIMETER MEMBERS OF THE SKID FRAMEWORK SHALL BE CHECKED FOR STRAIGHTNESS BY THE ENGINEER. WARPAGE OF THE SKID FRAME EXCEEDING 1/2" (ASSUMING THE BASE LINE IS A STRAIGHT LINE BETWEEN THE ENDS OF THE SKID DECK) SHALL BE CAUSE FOR REJECTION OR SHALL REQUIRE REPAIRS BY THE FABRICATOR TO MEET SUCH TOLERANCE.

SPECIAL INSPECTION

1. THE FOLLOWING SPECIAL INSPECTIONS SHALL BE PERFORMED BY QUALIFIED PERSONNEL EMPLOYED BY THE STATE OR ITS AGENT. THE CONTRACTOR SHALL COORDINATE WORK WITH THE SPECIAL INSPECTORS.
2. SPECIAL INSPECTORS SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH APPROVED DESIGN DRAWINGS AND SPECIFICATIONS. INSPECTION REPORTS SHALL BE FURNISHED TO THE OWNER AND THE ENGINEER OF RECORD. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, AND TO THE ATTENTION OF THE ENGINEER OF RECORD.
3. THE SPECIAL INSPECTORS SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISION OF THE APPLICABLE CODES.
4. PROVIDE THE FOLLOWING SPECIAL INSPECTIONS PER SECTION 1704 OF THE INTERNATIONAL BUILDING CODE. ITEMS MARKED BY AN ASTERIC (*) MAY BE INSPECTED BY THE RESIDENT PROJECT ENGINEER IF SPECIAL INSPECTOR IS NOT AVAILABLE.

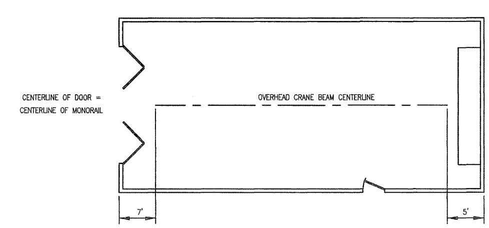
BUILDING FRAME:

1. ANCHOR BOLTS: VERIFY SNUG TIGHT OR AS OTHERWISE SPECIFIED BY THE BUILDING DESIGNER (PERIODIC)*.
2. HIGH STRENGTH BOLTS: VERIFY MARKINGS INDICATING TYPE OF BOLT MEETS THOSE REQUIRED BY CONSTRUCTION DOCUMENTS. FOR BOLTS TIGHTENED BY TURN-OF-THE-NUT METHOD, VERIFY CONNECTION PLYS HAVE BEEN DRAWN TOGETHER AND PROPERLY SNUGGED AND MONITOR INSTALLATION OF BOLTS TO VERIFY PROPER PROCEDURES (CONTINUOUS). FOR LOAD INDICATING WASHERS OR TWIST-OFF BOLTS, VERIFY UPON COMPLETION (PERIODIC).
3. INSPECT STEEL FRAME JOINT DETAILS INCLUDING MOMENT FRAME CONNS, FRAME BRACING AND FLANGE BRACING OF PRIMARY BUILDING FRAMES (PERIODIC)*.
4. BUILDING IS PRE-ENGINEERED METAL BUILDING, PROVIDE ANY SPECIAL INSPECTIONS REQUIRED BY THE BUILDING DESIGNER.

SKID:

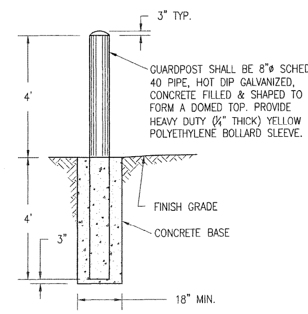
1. VISUAL INSPECTION OF WELDS
2. VERIFY WELDER QUALIFICATIONS
3. REVIEW WELDING PROCEDURES
4. VERIFY MATERIALS CERTIFICATIONS

AS-BUILT
3/1/18
Project Engineer Date
Hooper Bay Airport Improvements 57419



C OVERHEAD CRANE (MONORAIL)

NOT TO SCALE



7/S2 EXTERIOR BOLLARD DET

SCALE: NTS

STATE OF ALASKA 49TH
Duane H. Anderson
No. SE 14155
4-3-15
REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY: R&M CONSULTANTS, INC.

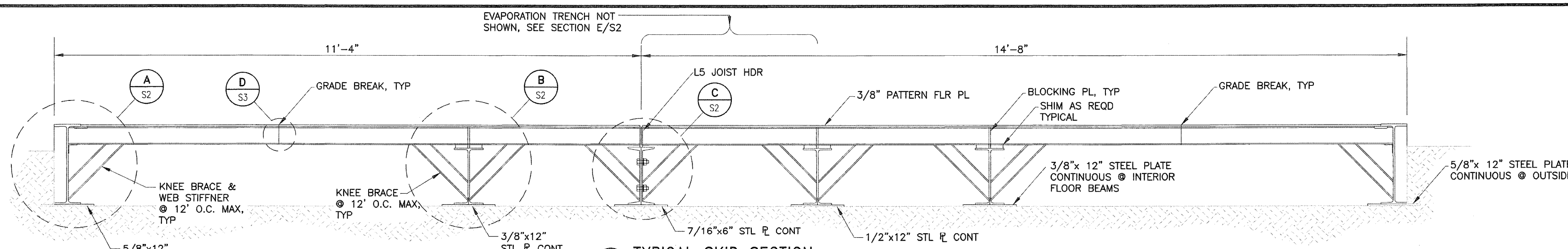
BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION

HOOPER BAY AIRPORT
HOOPER BAY, ALASKA
SNOW REMOVAL EQUIPMENT BUILDING
PROJECT No. 57419
AIP No. 3-02-0126-006-2014
FRAMING AND DECK PLANS

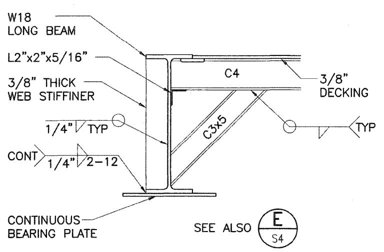
DATE: 04/03/2015
SHEET: S1 OF S4

Designed By: MCY
Drawn By: EMO
Checked By: RLC
Date Revised: 4/15/2015, 9:56 AM
Layout Name: FRAMING S-1
File Path and Name: Z:\project\1701.05 DOT_SWFF SREB Term Hooper Bay Airport\Civil\ACAD\1701.05-SB-SKID-S1.dwg

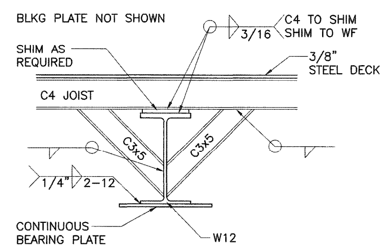


1 TYPICAL SKID SECTION
SCALE 1"=1'-0"

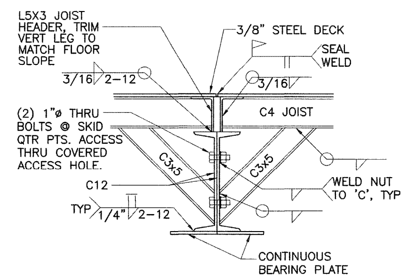
NOTE: BOTTOM OF FLOOR BEAMS AT SAME ELEVATION.



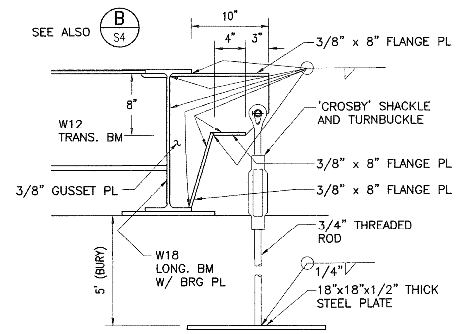
A TYP BRACING DET @ EXTERIOR
SCALE 1-1/2"=1'-0"



B TYP BRACING DET @ INTERIOR
SCALE 1-1/2"=1'-0"

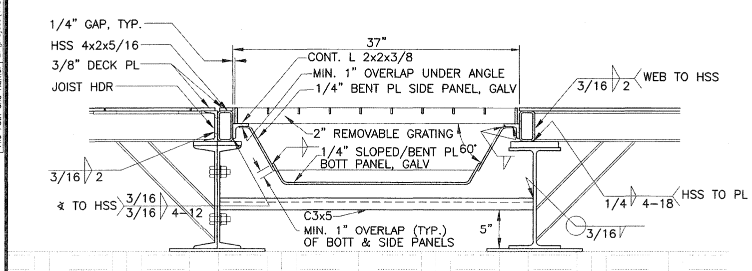


C TYP SKID SPLICE DETAIL
SCALE 1-1/2"=1'-0"

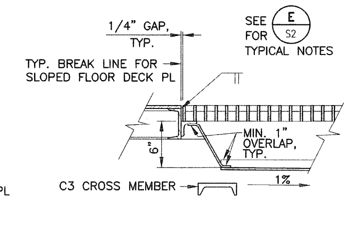


UNOTES:
1. CHANCE HELICAL WITH 2 7/8"ø SHAFT, 10" HELIX WITH 8' BURY MAY MAY BE USED IN LIEU OF TURNBUCKLE/ SHACKLE DETAIL
2. BELOW GRADE STEEL SHALL BE HOT DIP GALV AFTER FABRICATION

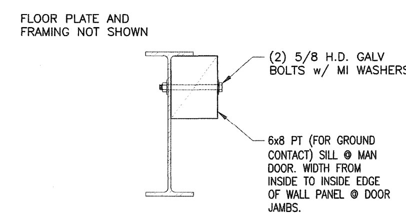
D TYP JACKING POINT & HOLD-DOWN DET
SCALE 1-1/2"=1'-0"



E EVAP. TRENCH CROSS-SECTION
SCALE 1 1/2"=1'-0"



F EVAP. TRENCH SECTION
SCALE 1 1/2"=1'-0"



G SKID SECTION @ MAN DOOR
SCALE 1 1/2"=1'-0"

AS-BUILT
Project Engineer 3/1/18 Date
Hooper Bay Airport Improvements 57419

STATE OF ALASKA 49TH Duane H. Anderson No. SE 14155 4-3-15 REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY: R&M CONSULTANTS, INC.

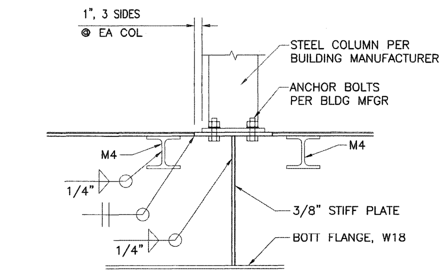
BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION

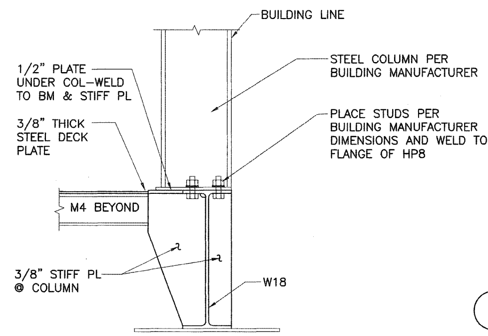
HOOPER BAY AIRPORT
HOOPER BAY, ALASKA
SNOW REMOVAL EQUIPMENT BUILDING
PROJECT No. 57419
AIP No. 3-02-0126-006-2014
STRUCTURAL DETAILS

DATE: 04/03/2015
SHEET: S2 OF S4

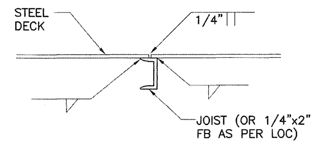
Designed By: MCY
Drawn By: BWD
Checked By: RLC
Date Revised: 4/15/2015 9:57 AM
Layout Name: DETAIL S-2
File Path and Name: Z:\project\1701.05 DOT_SWPF SREB Term Hooper Bay Airport\Civil\ACAD\1701.05-SB-SKID-S2.dwg



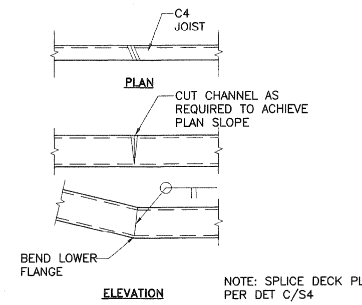
A COLUMN BEARING DETAIL
SCALE 1-1/2"=1'-0"



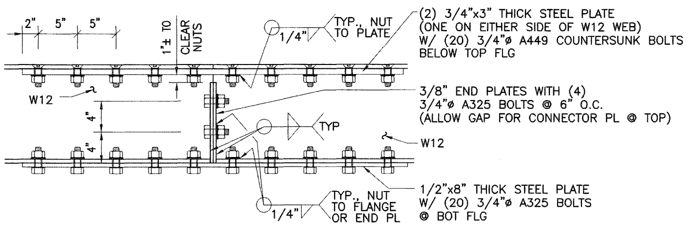
B COLUMN BEARING DETAIL
SCALE 1-1/2"=1'-0"



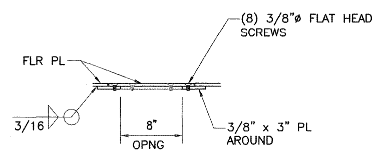
C SECTION @ DECK PLATE JOIINT
SCALE 1-1/2"=1'-0"



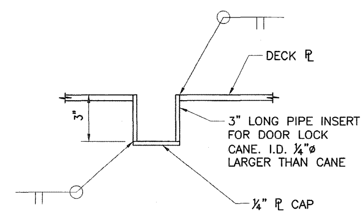
D JOIST CUT & WELD @ SLOPE CHANGES DET
SCALE 1-1/2"=1'-0"



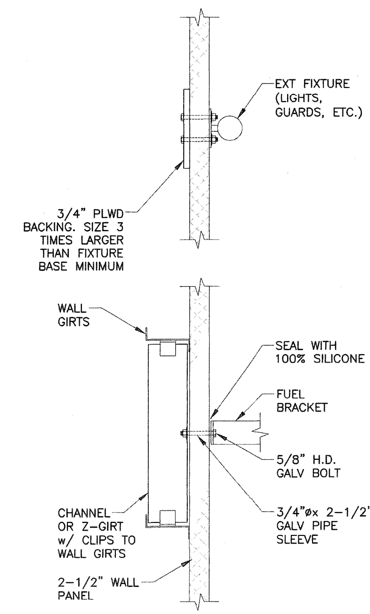
E TYPICAL SPLICE DETAIL
SCALE 1-1/2"=1'-0"

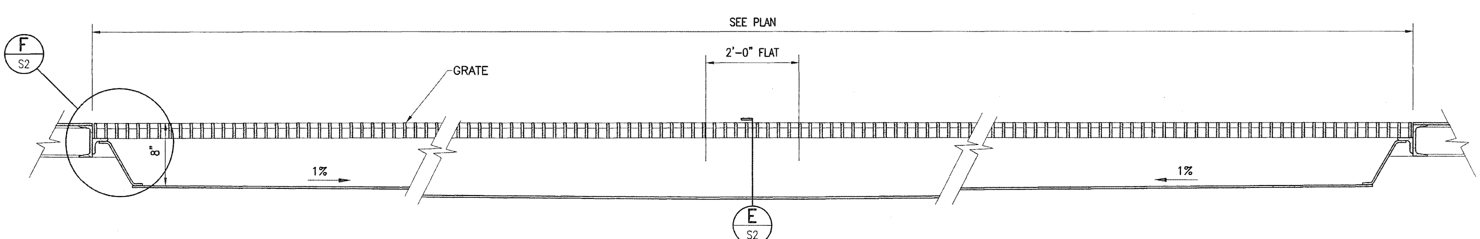


F FLOOR ACCESS HOLE DETAIL
SCALE 1-1/2"=1'-0"



H BIFOLD DOOR BRACE
SCALE 3"=1'-0"





G LONGITUDINAL SECTION @ EVAPORATION TRENCH
SCALE 1-1/2"=1'-0"

I TYP WALL MOUNT DETAILS
SCALE 1-1/2"=1'-0"

AS-BUILT
3/1/18
Project Engineer Date
Hooper Bay Airport Improvements 57419

STATE OF ALASKA 49TH Duane H. Anderson No. SE 14155 4-3-15 REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY:
R&M CONSULTANTS, INC.

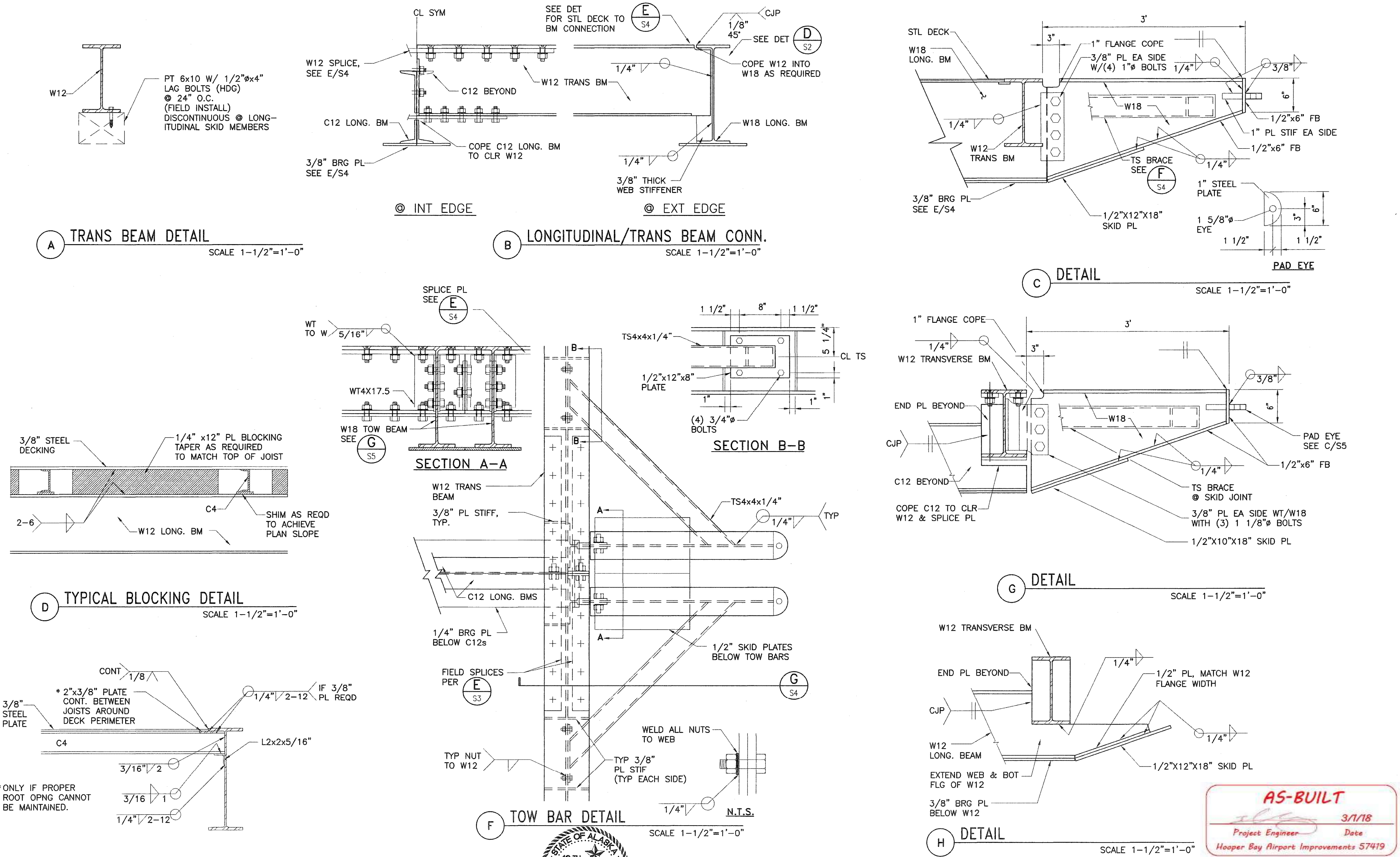
BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
CENTRAL REGION

HOOPER BAY AIRPORT
HOOPER BAY, ALASKA
SNOW REMOVAL EQUIPMENT BUILDING
PROJECT No. 57419
AIP No. 3-02-0126-006-2014
STRUCTURAL DETAILS

DATE: 04/03/2015
SHEET: S3 OF S4

Designed By: MCY
Drawn By: BWD
Checked By: RLC
Date Revised: 4/15/2015, 9:57 AM
Layout Name: DETAIL S-3
File Path and Name: Z:\project\1701.05 DOT_SWPF SREB Term Hooper Bay Airport\Civil\ACAD\1701.05-SB-SKD-S3.dwg



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Layout Name: DETAIL S-4
File Path and Name: Z:\project\1701.05 DOT_SWPF SREB Term Hooper Bay Airport\Civil\ACAD\1701.05-SB-SKID-S4.dwg
Designed By: MCY
Drawn By: BWD
Checked By: RLC

AS-BUILT
3/1/18
Project Engineer — Date
Hooper Bay Airport Improvements 57419

STATE OF ALASKA — 49TH — Duane H. Anderson — No. SE 14155 — 4-3-15 — REGISTERED PROFESSIONAL ENGINEER

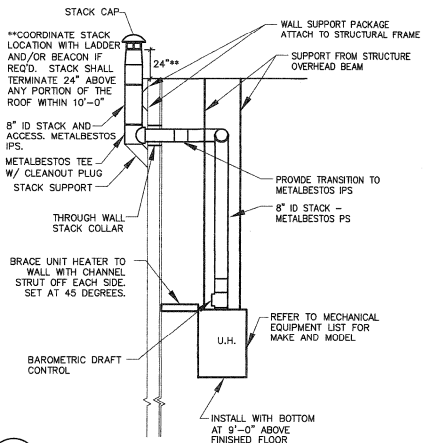
PLANS DEVELOPED BY: R&M CONSULTANTS, INC.

BY	DATE	REVISION

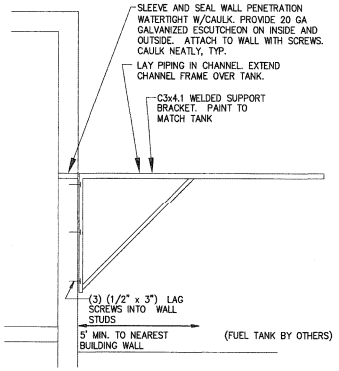
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION

HOOPER BAY AIRPORT
HOOPER BAY, ALASKA
SNOW REMOVAL EQUIPMENT BUILDING
PROJECT No. 57419
AIP No. 3-02-0126-006-2014
STRUCTURAL DETAILS

DATE: 04/03/2015
SHEET: S4 OF S4



2 / M1 **UNIT HEATER STACK INSTALLATION** NTS



3 / M1 **FUEL PIPING SUPPORT BRACKET** NTS

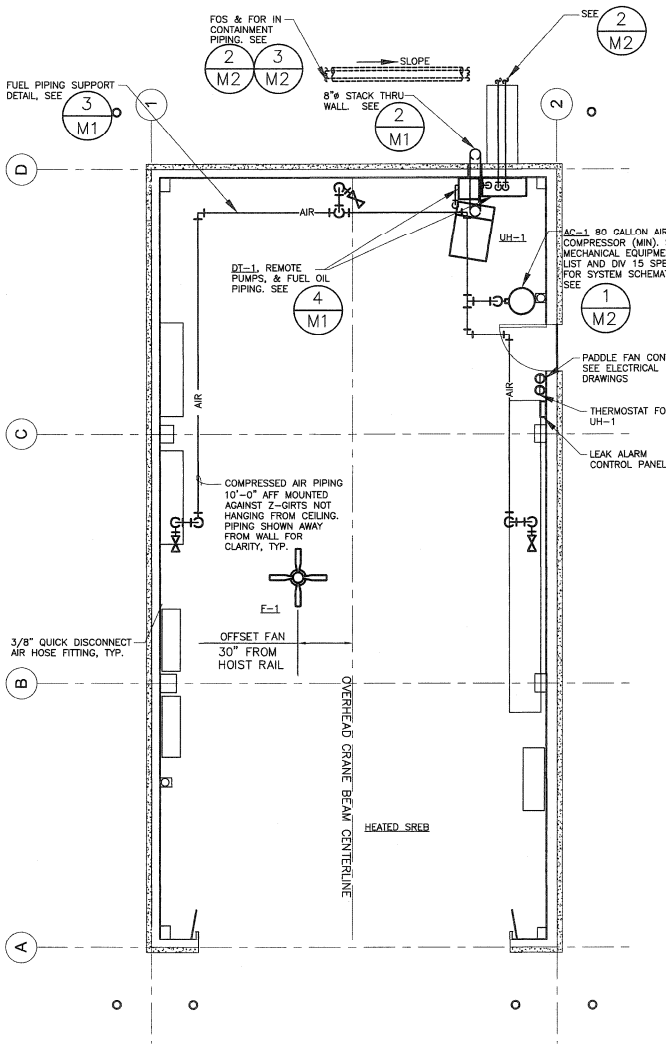
MECHANICAL EQUIPMENT LIST

TAG	DESIGN BASIS PRODUCT
*AC-1	AIR COMPRESSOR: INGERSOLL RAND T30-2340-N3-1, 80 GALLON MINIMUM, 9.0 ACFM @ 175 PSI, 3 HP, 1.15 SF, 230V/1PH/60 HZ, CRANKCASE HEATER, LOW OIL LEVEL CUTOUT, AIR FILTER AND PRESSURE REGULATOR, AUTOMATIC CONDENSATE DRAIN W/ HIGH MOUNT ELECTRIC CONDENSATE DRAIN EDV-2000. HOSE REEL: AUTO RETRACTABLE REELCRAFT MODEL NO. 3Z862 LOW PRESSURE, 50 FOOT, 3/8"
*UH-1	UNIT HEATER: MODINE POR185, #1 DIESEL/FUEL OIL, 1.65 GPH, 231 MBTUH INPUT/184 MBTUH OUTPUT, 3200 CFM @ 56 FOOT THROW, 1/4 HP, 1100 RPM, 115V/1PH/60 HZ, T-STAT: HONEYWELL T631C1103 W/ LOCKABLE COVER.
*F-1	PADDLE FAN: GRAINGER/DAYTON MODEL #5NP22, 36 INCH, 12,500 CFM @ 395 RPM, 78VA, 120V/1PH/60 HZ, GRAINGER DAYTON MODEL #1AGU6 SPEED SWITCH
*DT-1	DAY TANK: SIMPLEX SST SERIES W/ PCB 1 CONTROLS, WALL MOUNT, 10 GALLON CAPACITY, GRAVITY FEED TO UNIT HEATER, DUPLEX REMOTE FUEL PUMPS - 1/3 HP MOTOR, 115V/60HZ/1PH, 083 VENT CAP
*TS-1	TRANSITION SUMP: POLYETHYLENE SUMP/ FIBERGLASS TOP, HEAVILY RIBBED CONTAINMENT CHAMBER, ADJUSTABLE, REMOVABLE TOP FOR ACCESS TO TRANSITION PIPING. OPW PST-4630 TOP ENTRY.

NOTE: FURNISH AND INSTALL MAKES AND MODELS CITED HERE OR IN THE SPECIFICATIONS OR APPROVED EQUALS. * DENOTES EQUIPMENT REQUIRED IN BOTH SREB #1 AND #2

MECHANICAL LEGEND

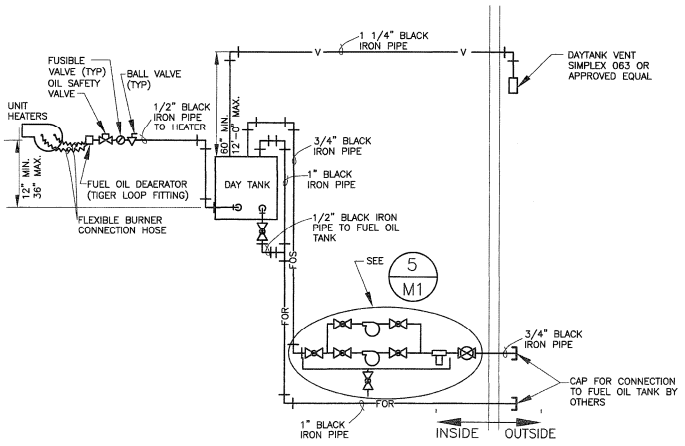
SYMBOL	DESCRIPTION
	QUICK DISCONNECT AIR VALVE
	ISOLATION VALVE
	FUSIBLE VALVE
—F—	FUEL PIPING - SUPPLY & RETURN
—AIR—	AIR COMPRESSOR LINE - BLACK IRON
UH	UNIT HEATER
	OIL SAFETY VALVE



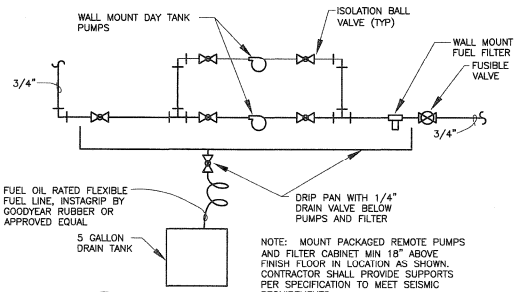
1 / M1 **SREB #1 FUEL PIPING AND HEATING FLOOR PLAN** 1/8" = 1'-0"

NOTE: WORK SHALL APPLY FOR BOTH HEATED SREB BUILDINGS.

GRAPHIC SCALE: 1/8" = 1'-0"



4 / M1 **UNIT HEATER FUEL OIL PIPE ONE-LINE** NTS



NOTE: MOUNT PACKAGED REMOTE PUMPS AND FILTER CABINET MIN 18" ABOVE FINISH FLOOR IN LOCATION AS SHOWN. CONTRACTOR SHALL PROVIDE SUPPORTS PER SPECIFICATION TO MEET SEISMIC REQUIREMENTS.

5 / M1 **DAY TANK PUMP ASSEMBLY DETAIL** NTS

AS-BUILT 3/1/18 Project Engineer Date Hooper Bay Airport Improvements 57419

STATE OF ALASKA 49TH BRADLEY S. SORDAHL 06/11/2015 ME-7568 REGISTERED PROFESSIONAL ENGINEER

PLAN PREPARED BY MBA CONSULTING ENGINEERS, INC.

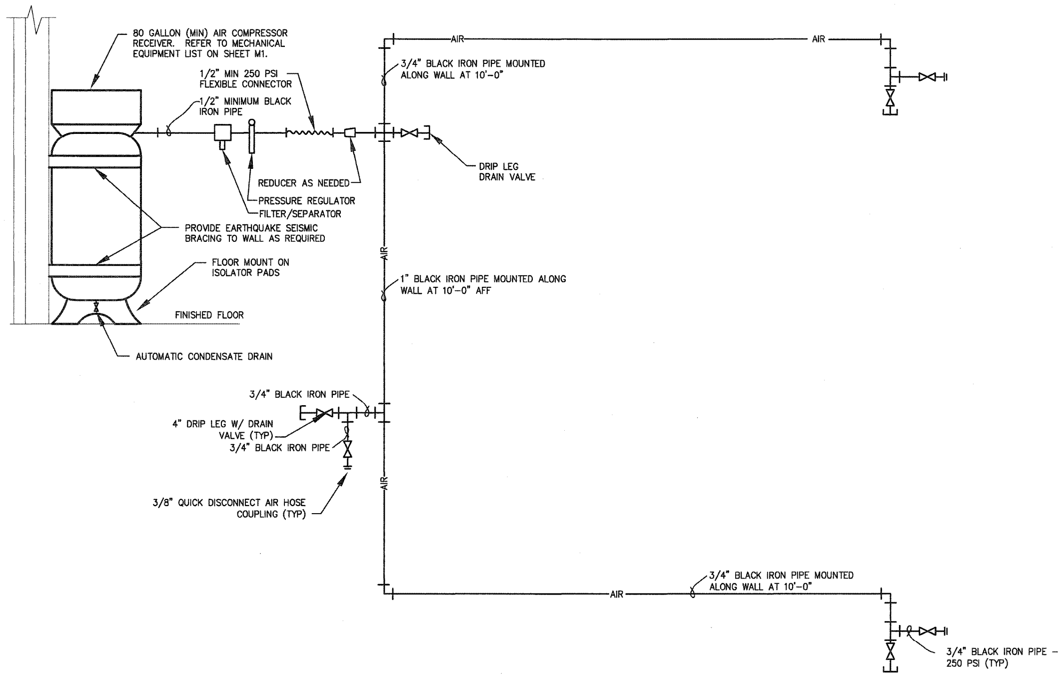
BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION

HOOPER BAY AIRPORT
HOOPER BAY, ALASKA
SNOW REMOVAL EQUIPMENT BUILDING
AIP_NUMBER: 3-02-0126-006-2014
MECHANICAL PLAN AND DETAILS

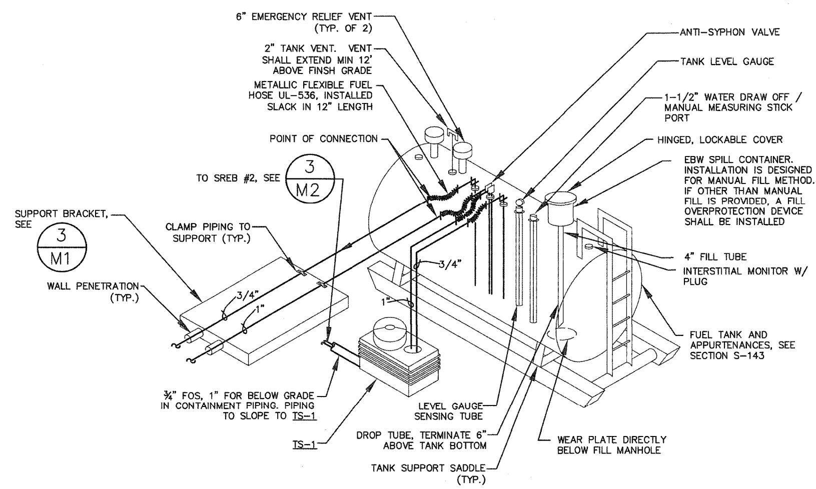
DATE: 6/11/2015
SHEET: M1 OF M2
AS-BUILT SHEET:

Designed By:
Drawn By:
Checked By:
Date Revised:
Layout Name: Layout1
File Path and Name: Z:\140-4485 - Hooper Bay SREB\M-Working\Drawings\14014_M1.dwg
8/11/2015, 8:44 AM

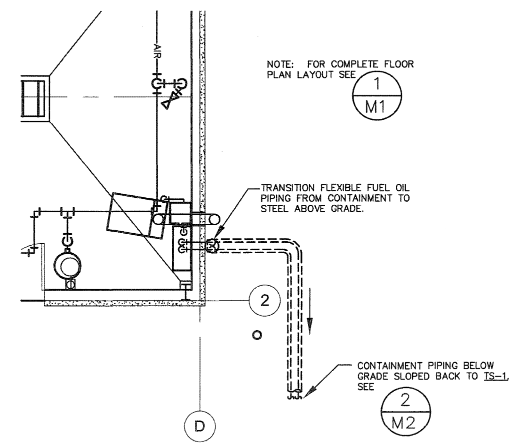


1 / M2 **COMPRESSED AIR SYSTEM PIPING SCHEMATIC**
NTS

NOTE: DETACHABLE HOSE REEL (SEE MECHANICAL EQUIPMENT LIST ON SHEET M1) TO BE UTILIZED AT ANY OUTLET.



2 / M2 **FUEL OIL TANK DETAIL**
NTS



3 / M2 **SREB #2 PARTIAL PLAN**
1/8" = 1'-0"

Date Revised: 6/11/2015 8:45 AM
Layout Name: Layout1
File Path and Name: Z:\14014HBS – Hooper Bay SREB\M-Working Drawings\14014_M2.dwg
Designed By:
Drawn By:
Checked By:

PLAN PREPARED BY MBA CONSULTING ENGINEERS, INC.

AS-BUILT
3/1/18
Project Engineer Date
Hooper Bay Airport Improvements 57419

STATE OF ALASKA 49TH BRADLEY S. SORDAHL 06/11/2015 ME-7568 REGISTERED PROFESSIONAL ENGINEER

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION

HOOPER BAY AIRPORT
HOOPER BAY, ALASKA
SNOW REMOVAL EQUIPMENT BUILDING
AIP_NUMBER: 3-02-0126-006-2014
COMPRESSED AIR SCHEMATIC

DATE: 6/11/2015
SHEET: M2 OF M2
AS-BUILT SHEET:

PANEL: C

PROJECT: SINGLE BAY SREB — THRUFEED LGS ☐ — SUBFEED BKR ☐
LOCATION: LUGS ☐ CB ■ — SURF ■ FLSH ☐ — SHNT TRP ☐ SBFD LGS ☐ — ISO GRND BAR ☐ SOLID NEUTRAL ■

120/240 VOLTS — 1 PH — 3 WIRE — 200 AMP — 22,000 (1) AIC

CIRCUIT DESCRIPTION	KVA	AMP	CKT	CKT	AMP	KVA	CIRCUIT DESCRIPTION
PANEL G	5.83	50/	1	2	30/1	2.88	NEMA 5-30 RECEPTACLE
		/2	3	4	30/		SPARE
50 AMP 240 VOLT RECEPTACLE	9.6	50/	5	6	/2		
NEMA 6-50R		/2	7	8	30/		SPARE
NEMA 5-20 RECEPTACLES	0.72	20/1	9	10	/2		
NEMA 5-20 RECEPTACLES	0.54	20/1	11	12	20/1	0.18	NEMA 5-20 RECEPT.- COMPRESSOR
AIR COMPRESSSOR - 3 HP	4.78	50/	13	14	20/1		SPARE
		/2	15	16	20/1		SPARE
SPARE		20/1	17	18	20/1		SPARE
SPARE		20/1	19	20	20/1		SPARE
SPACE			21	22	20/1		SPARE
SPACE			23	24	20/1		SPARE
SPACE			25	26	/2		
SPACE			27	28	20/1		SPARE
SPACE			29	30	20/1		SPARE

CONNECTED LOAD:	24.53	KVA	102.2	A
DEMAND LOAD:	24.53	KVA	102.2	A
DEMAND + CONT.	25.81	KVA	107.6	A
DATE:				
REV:				

REMARKS:
(1) FAULT CURRENT BASED ON 50 KVA 1.0% Z TRANSFORMER
2. PROVIDE SEPARATE NEUTRAL AND EQUIPMENT GROUND BARS
3. PROVIDE 200/2 MAIN CB

PANEL: G

PROJECT: SINGLE BAY SREB — THRUFEED LGS ☐ — SUBFEED BKR ☐
LOCATION: LUGS ■ CB ☐ — SURF ■ FLSH ☐ — SHNT TRP ☐ SBFD LGS ☐ — ISO GRND BAR ☐ SOLID NEUTRAL ■

120/240 VOLTS — 1 PH — 3 WIRE — 100 AMP — 22,000 AIC

CIRCUIT DESCRIPTION	KVA	AMP	CKT	CKT	AMP	KVA	CIRCUIT DESCRIPTION
LIGHTING	1.26	20/1	1	2	30/		SPARE
LIGHTING	0.29	20/1	3	4	/2		
SPARE		15/1	5	6	20/		SPARE
PADDLE FAN & UNIT HEATER	0.75	15/1	7	8	/2		
1/3 HP FUEL PUMP AND DISPENSER	0.83	20/1	9	10	15/1	0.8	DAY TANK PUMP
FUEL PUMP STOP/DISCONNECT	0.1	15/1	11	12	15/1	0.8	DAY TANK PUMP
SPACE			13	14	20/1	1.0	LEAK ALARM PANEL
SPACE			15	16			SPACE

CONNECTED LOAD:	5.83	KVA	24.3	A
DEMAND LOAD:	5.83	KVA	24.3	A
DEMAND + CONT.	6.47	KVA	26.9	A
DATE:				
REV:				

REMARKS:
1. PROVIDE SEPARATE NEUTRAL AND EQUIPMENT GROUND BARS
2. VERIFY CB REQUIREMENTS FOR FUEL DISPENSER

NOTES:

(1) PROVIDE MULTIPOLE CIRCUIT BREAKERS OR CIRCUIT BREAKERS WITH HANDLE TIES, AS REQUIRED FOR COMPLIANCE WITH NEC 210.4(B), WHEREVER FIELD WIRING RESULTS IN MULTIWIRE BRANCH CIRCUITS.

LEGEND

FIXTURE	DESCRIPTION	MOUNTING HEIGHT	LAMP SIZE/ TYPE	REMARKS
A/150	CEILING MOUNT WITH POWER HOOK AND SAFETY CHAIN, 12,000 LUMENS, WIDE DISTRIBUTION, NO SHIELDING, 120 VOLT, 70 CRI, 4000K CCT. FIXTURE STANDARD FINISH TO MATCH BUILDING FINISH AS CLOSELY AS POSSIBLE. SUITABLE FOR -40F, DAMP LOCATION LISTED. LITHONIA IBL-12L-WD-LP740DLC OR APPROVED EQUAL.	16'-0"	LED	
B/75	WALL MOUNT AREA LIGHT, POLYCARBONATE REFRACTOR, 120-VOLT, 5100K CCT, 5337 LUMENS. PROVIDE INTEGRAL PHOTO-ELECTRIC CELL WHERE NOTED ON PLANS. FIXTURE STANDARD FINISH TO MATCH BUILDING FINISH AS CLOSELY AS POSSIBLE. UL LISTED FOR WET LOCATION. HUBBELL PVL3-30LU-5K-BZ OR APPROVED EQUAL.	2 FEET BELOW ROOF STRUCTURE	LED	
E/60 B	EMERGENCY EGRESS LIGHT, NICKEL-CADMIUM BATTERY, 12V, -40°C RATING. INDUSTRIAL LIGHTING UNIT, UL LISTED FOR WET LOCATION. SURVIVE-ALL SV SERIES CATALOG NO. W-12SV2AN-2-L1-D-CWA OR APPROVED EQUAL	8'-0"	LED	
(1)	NOTE SYMBOL - NUMBER INDICATED			
$	SINGLE POLE SWITCH, LIGHTED TOGGLE (LIGHT ON WITH LOAD OFF)	48"		
$3	3-WAY SWITCH, LIGHTED TOGGLE (LIGHT ON WITH LOAD OFF)	48"		
$T	SINGLE POLE MANUAL MOTOR STARTER SWITCH W/THERMAL OVERLOAD ELEMENT	48"		
$WP	WEATHERPROOF SWITCH	48"		
$HOA & SP	DOUBLE POLE HAND-OFF-AUTO SWITCH WITH SPEED CONTROL	48"		
JWP	WEATHERPROOF JUNCTION BOX			
	CIRCUIT BREAKER PANEL, SEE PANEL SCHEDULE	6'-6" TO TOP		
	CIRCUIT BREAKER (CB)			
	ELECTRICAL CIRCUIT			
C-#	HOME RUN TO CIRCUIT PANEL WITH PANEL AND BREAKER NUMBER			
	GROUND ELECTRODE SYSTEM CONNECTION			
	DUPLEX OUTLET, GFCI, NEMA 5-20R	48"		
A	RECEPTACLE, 30 AMP, 120V, NEMA L5-30R.	48"		PROVIDE MATCHING ANGLE PLUG
B	RECEPTACLE, 50 AMP, 240V, NEMA 6-50R	48"		PROVIDE MATCHING ANGLE PLUG
D	DISCONNECT SWITCH, 60A, 2P, S/N, 240V	5'-6"		
F	FAN JUNCTION BOX			
(G)	MOTOR WITH HORSEPOWER INDICATED			
G	GENERATOR INLET, NEMA L14-30 IN NEMA-3R ENCLOSURE	48"		
UGE	UNDERGROUND ELECTRICAL			
	LOW VOLTAGE CKT.			
RGC	RIGID STEEL CONDUIT			
LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT			
BCG	BARE COPPER GROUNDING CONDUCTOR			
AFF	ABOVE FINISHED FLOOR			

SREB GENERAL NOTES:

1. THE WORK SHOWN ON THIS DRAWING IS APPLICABLE TO SREB #1.
2. THE WORK SHOWN ON THIS DRAWING IS APPLICABLE TO SREB #2, EXCEPT FOR THE FOLLOWING:
   - A. PANEL C:
     1. PANEL DEMAND + CONT. = 22.99 KVA, 95.8 AMPS @ 120/240V.
   - B. THE FOLLOWING CIRCUIT BREAKERS ARE NOT REQUIRED IN PANEL G (CONVERT THEM TO "SPARE"):
     1. LEAK ALARM PANEL (G-14)
     2. FUEL PUMP AND DISPENSER (G-9).
     3. FUEL PUMP STOP/DISCONNECT (G-11).
     4. PANEL DEMAND + CONT. = 4.29 KVA, 17.9 AMPS @ 120/240V.

AS-BUILT
3/1/18
Project Engineer — Date
Hooper Bay Airport Improvements 57419

PLAN PREPARED BY MBA CONSULTING ENGINEERS, INC.

STATE OF ALASKA 49TH — MICHAEL J. LOVE — 4/3/2015 — EE-6818 — REGISTERED PROFESSIONAL ENGINEER

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION

HOOPER BAY AIRPORT
HOOPER BAY, ALASKA
SNOW REMOVAL EQUIPMENT BUILDING
AIP_NUMBER: 3-02-0126-006-2014

ELECTRICAL LEGEND AND SCHEDULES

DATE: 4/3/2015
SHEET: E4 OF E4
AS-BUILT SHEET:

Designed By: KSLP
Drawn By:
Checked By: DCH

Date Revised: 3/13/2015, 10:53 AM
Layout Name: Layout1
This Path and Name: Z:\1401-4HBS - Hooper Bay SREB\E-Working\Drawings\1401_E1.dwg

PANEL: C

PROJECT: SINGLE BAY SREB
LOCATION:
LUGS ☐ CB ■ SURF ■ FLSH ☐ THRUFEED LGS ☐ SHNT TRP ☐ SBFD LGS ☐ SUBFEED BKR ☐ ISO GRND BAR ☐ SOLID NEUTRAL ■

120/240 VOLTS — 1 PH 3 WIRE — 200 AMP — 22,000 (1) AIC

CIRCUIT DESCRIPTION	KVA	AMP	CKT	CKT	AMP	KVA	CIRCUIT DESCRIPTION
PANEL G	5.83	50/	1	2	30/1	2.88	NEMA 5-30 RECEPTACLE
		/2	3	4	30/		SPARE
50 AMP 240 VOLT RECEPTACLE	9.6	50/	5	6	/2		
NEMA 6-50R		/2	7	8	30/		SPARE
NEMA 5-20 RECEPTACLES	0.72	20/1	9	10	/2		
NEMA 5-20 RECEPTACLES	0.54	20/1	11	12	20/1	0.18	NEMA 5-20 RECEPT.- COMPRESSOR
AIR COMPRESSSOR - 3 HP	4.78	50/	13	14	20/1		SPARE
		/2	15	16	20/1		SPARE
SPARE		20/1	17	18	20/1		SPARE
SPARE		20/1	19	20	20/1		SPARE
SPACE			21	22	20/1		SPARE
SPACE			23	24	20/		SPARE
SPACE			25	26	/2		
SPACE			27	28	20/1		SPARE
SPACE			29	30	20/1		SPARE
CONNECTED LOAD:	24.53 KVA		102.2 A	REMARKS:			
DEMAND LOAD:	24.53 KVA		102.2 A	(1) FAULT CURRENT BASED ON 50 KVA 1.0% Z TRANSFORMER			
DEMAND + CONT.	25.81 KVA		107.6 A	2. PROVIDE SEPARATE NEUTRAL AND EQUIPMENT GROUND BARS			
DATE:				3. PROVIDE 200/2 MAIN CB			
REV:							

PANEL: G

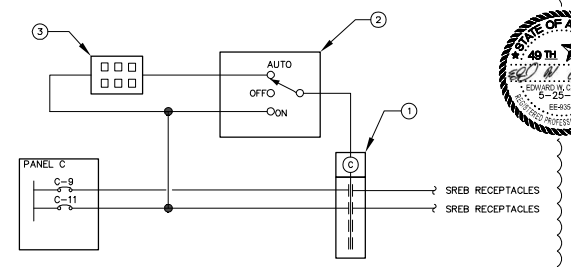
PROJECT: SINGLE BAY SREB
LOCATION:
LUGS ■ CB ☐ SURF ■ FLSH ☐ THRUFEED LGS ☐ SHNT TRP ☐ SBFD LGS ☐ SUBFEED BKR ☐ ISO GRND BAR ☐ SOLID NEUTRAL ■

120/240 VOLTS — 1 PH 3 WIRE — 100 AMP — 22,000 AIC

CIRCUIT DESCRIPTION	KVA	AMP	CKT	CKT	AMP	KVA	CIRCUIT DESCRIPTION
LIGHTING	1.26	20/1	1	2	30/		SPARE
LIGHTING	0.29	20/1	3	4	/2		
SPARE		15/1	5	6	20/		SPARE
PADDLE FAN & UNIT HEATER	0.75	15/1	7	8	/2		
1/3 HP FUEL PUMP AND DISPENSER	0.83	20/1	9	10	15/1	0.8	DAY TANK PUMP
FUEL PUMP STOP/DISCONNECT	0.1	15/1	11	12	15/1	0.8	DAY TANK PUMP
SPACE			13	14	20/1	1.0	LEAK ALARM PANEL
SPACE			15	16			SPACE
CONNECTED LOAD:	5.83 KVA	24.3 A	REMARKS:				
DEMAND LOAD:	5.83 KVA	24.3 A	1. PROVIDE SEPARATE NEUTRAL AND EQUIPMENT GROUND BARS				
DEMAND + CONT.	6.47 KVA	26.9 A	2. VERIFY CB REQUIREMENTS FOR FUEL DISPENSER				
DATE:							
REV:							

NOTES:

(1) PROVIDE MULTIPOLE CIRCUIT BREAKERS OR CIRCUIT BREAKERS WITH HANDLE TIES, AS REQUIRED FOR COMPLIANCE WITH NEC 210.4(B), WHEREVER FIELD WIRING RESULTS IN MULTIWIRE BRANCH CIRCUITS.



1 / E1 **RECEPTACLE CONTROL DIAGRAM**
NTS

EQUIPMENT:

1. 4-POLE (2 SPARE) 30 AMP, ELECTRICALLY HELD, 120Vac COIL, CONTACTOR, SCHNEIDER 8903L SERIES OR AS APPROVED
2. HOA KEYED SWITCH (SHOWN IN THE AUTO POSITION). LOCATED IN CONTACTOR.
3. 24 HOUR PROGRAMMABLE TIMER, LOCKABLE, BATTERY BACKUP, INTER MATIC GMX QT-1-120 OR AS APPROVED.

LEGEND

FIXTURE	DESCRIPTION	MOUNTING HEIGHT	LAMP SIZE/ TYPE	REMARKS
A/150	CEILING MOUNT WITH POWER HOOK AND SAFETY CHAIN, 12,000 LUMENS, WIDE DISTRIBUTION, NO SHIELDING, 120 VOLT, 70 CRI, 4000K CCT. FIXTURE STANDARD FINISH TO MATCH BUILDING FINISH AS CLOSELY AS POSSIBLE. SUITABLE FOR -40F, DAMP LOCATION LISTED. LITHONIA IBL-12L-WD-LP740DLC OR APPROVED EQUAL.	16'-0"	LED	
B/75	WALL MOUNT AREA LIGHT, POLYCARBONATE REFRACTOR, 120-VOLT, 5100K CCT, 5337 LUMENS. PROVIDE INTEGRAL PHOTO-ELECTRIC CELL WHERE NOTED ON PLANS. FIXTURE STANDARD FINISH TO MATCH BUILDING FINISH AS CLOSELY AS POSSIBLE. UL LISTED FOR WET LOCATION. HUBBELL PVL3-30LU-5K-BZ OR APPROVED EQUAL.	2 FEET BELOW ROOF STRUCTURE	LED	
E/60 B	EMERGENCY EGRESS LIGHT, NICKEL-CADMIUM BATTERY. 12V, -40°C RATING. INDUSTRIAL LIGHTING UNIT, UL LISTED FOR WET LOCATION. SURVIVE-ALL SV SERIES CATALOG NO. W-12SV24N-2-LJ-D-CW4, OR APPROVED EQUAL.	8'-0"	LED	
⟨1⟩	NOTE SYMBOL - NUMBER INDICATED			
$	SINGLE POLE SWITCH, LIGHTED TOGGLE (LIGHT ON WITH LOAD OFF)	48"		
$3	3-WAY SWITCH, LIGHTED TOGGLE (LIGHT ON WITH LOAD OFF)	48"		
$T	SINGLE POLE MANUAL MOTOR STARTER SWITCH W/THERMAL OVERLOAD ELEMENT	48"		
$WP	WEATHERPROOF SWITCH	48"		
$HOA & SP	DOUBLE POLE HAND-OFF-AUTO SWITCH WITH SPEED CONTROL	48"		
JWP	WEATHERPROOF JUNCTION BOX			
	CIRCUIT BREAKER PANEL, SEE PANEL SCHEDULE	6'-6" TO TOP		
	CIRCUIT BREAKER (CB)			
	ELECTRICAL CIRCUIT			
C-#	HOME RUN TO CIRCUIT PANEL WITH PANEL AND BREAKER NUMBER			
	GROUND ELECTRODE SYSTEM CONNECTION			
	DUPLEX OUTLET, GFCI, NEMA 5-20R	48"		
A	RECEPTACLE, 30 AMP, 120V, NEMA 5-30R.	48"		PROVIDE MATCHING ANGLE PLUG
B	RECEPTACLE, 50 AMP, 240V, NEMA 6-50R	48"		PROVIDE MATCHING ANGLE PLUG
	DISCONNECT SWITCH, 60A, 2P, S/N, 240V	5'-6"		
F	FAN JUNCTION BOX			
	MOTOR WITH HORSEPOWER INDICATED			
B	GENERATOR INLET, NEMA L14-30 IN NEMA-3R ENCLOSURE	48"		
UGE	UNDERGROUND ELECTRICAL			
	LOW VOLTAGE CKT.			
RSC	RIGID STEEL CONDUIT			
LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT			
BCG	BARE COPPER GROUNDING CONDUCTOR			
AFF	ABOVE FINISHED FLOOR			

SREB GENERAL NOTES:

1. THE WORK SHOWN ON THIS DRAWING IS APPLICABLE TO SREB #1.
2. THE WORK SHOWN ON THIS DRAWING IS APPLICABLE TO SREB #2, EXCEPT FOR THE FOLLOWING:
   - A. PANEL C:
     1. PANEL DEMAND + CONT. = 22.99 KVA, 95.8 AMPS @ 120/240V.
   - B. THE FOLLOWING CIRCUIT BREAKERS ARE NOT REQUIRED IN PANEL G (CONVERT THEM TO "SPARE"):
     1. LEAK ALARM PANEL (G-14)
     2. FUEL PUMP AND DISPENSER (G-9).
     3. FUEL PUMP STOP/DISCONNECT (G-11).
     4. PANEL DEMAND + CONT. = 4.29 KVA, 17.9 AMPS @ 120/240V.

AS-BUILT
3/1/18
Project Engineer — Date
Hooper Bay Airport Improvements 57419

STATE OF ALASKA 49 TH — EDWARD W. CARLSON — 5-25-16 — EE-6354 — REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA 49 TH — MICHAEL A. LOVE — 4/3/2015 — EE-5818 — REGISTERED PROFESSIONAL ENGINEER

BY	DATE	REVISION
EWC	5-24-16	1 RECEPTACLE CONTROL

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION

HOOPER BAY AIRPORT
HOOPER BAY, ALASKA
SNOW REMOVAL EQUIPMENT BUILDING
AIP_NUMBER: 3-02-0126-006-2014

ELECTRICAL LEGEND AND SCHEDULES

DATE: 4/3/2015
SHEET: E1 OF E4
AS-BUILT SHEET:

Designed By: KSLP
Drawn By: TCH
Checked By: TCH
Date Revised:
Layout Name: Layout1
File Path and Name: Z:\14014\MBS - Hooper Bay, SREB\E-Working\Drawings\14014_E1.dwg
3/12/2015, 10:53 AM

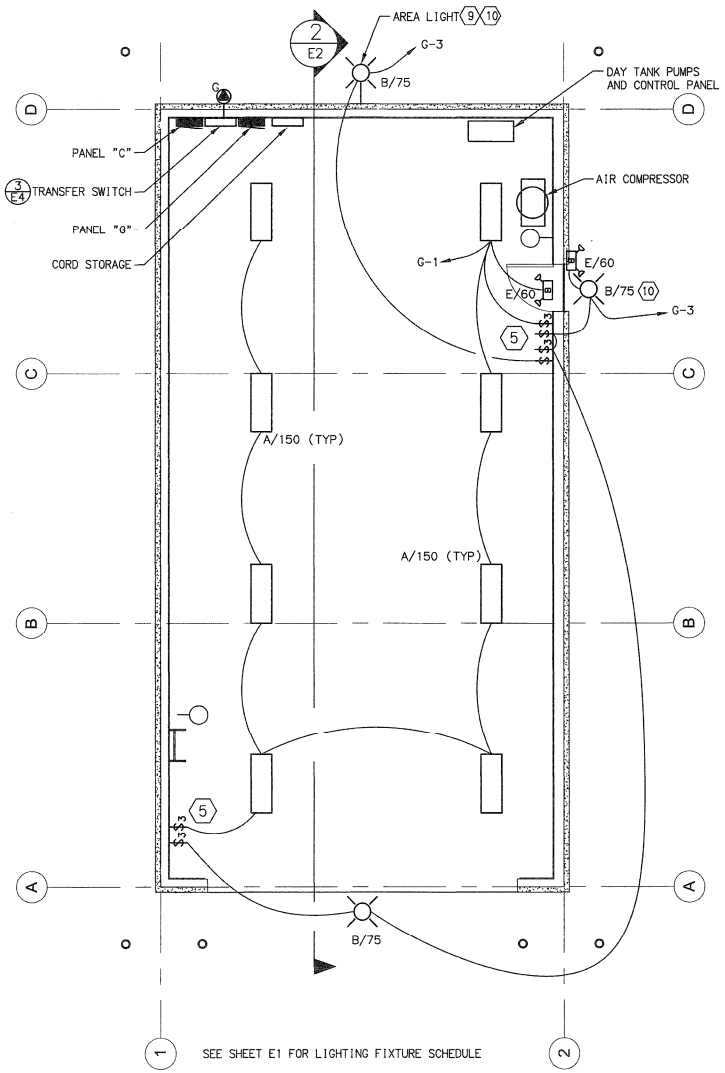
PLAN PREPARED BY MBA CONSULTING ENGINEERS, INC.

ELECTRICAL NOTES - SHEETS E2 & E3

1. 120-VOLT POWER FOR COMPRESSOR CRANKCASE HEATER AND AUTOMATIC CONDENSATE DRAIN CONTROL TO BE CONNECTED TO NEMA-5-20 RECEPTACLE NEXT TO COMPRESSOR.
2. ALL CONDUITS IN THE BUILDING, PASSING THROUGH THE ZONE FROM THE FLOOR TO 1.5' ABOVE THE FLOOR, SHALL BE RMC AND SHALL HAVE A SEAL FITTING LOCATED 18" MINIMUM ABOVE THE FLOOR. THE BUILDING ELECTRICAL INSTALLATION SHALL COMPLY WITH NEC ARTICLE 511 "COMMERCIAL GARAGES, REPAIR AND STORAGE".
3. NOT USED.
4. INSTALL CONTINUOUS #3/0 AWG BCG GROUND RING, BURY DEPTH 30". GROUNDING ELECTRODE SYSTEM: BOND TOGETHER GROUND RODS, THE BUILDING STEEL FRAME, BUILDING STEEL FLOOR, AND THE GROUND RING WITH #2 AWG CONDUCTORS. AT THE SERVICE ENTRANCE, BOND #6 AWG CONDUCTOR TO GROUNDING ELECTRODE SYSTEM FOR CONNECTION TO BUILDING DISCONNECT. SEE AIRFIELD LIGHTING DRAWINGS.
5. SWITCHES FOR LIGHT FIXTURES-A/150 & B/75 TO HAVE LOCATOR LIGHTS IN TOGGLE.
6. FOR ALL EXTERIOR WIRING AND INTERIOR WIRING BELOW 10 FT ABOVE FINISH FLOOR, USE RIGID STEEL CONDUIT. IMC AND EMT CONDUIT MAY BE USED 10 FT A.F.F. WITHIN THE BUILDING ENVELOPE.
7. NOT USED.

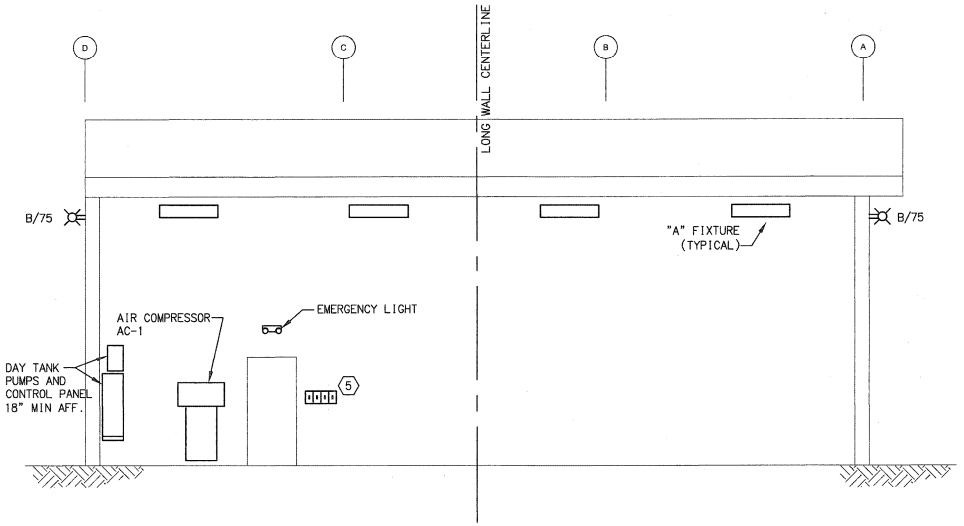
NOT USED.

9. LOCATE FIXTURE TO ILLUMINATE THE FUEL DISPENSING AREA AND ELECTRICAL EQUIPMENT BUILDING. LOCATE TO AVOID CONFLICT WITH UNIT HEATER EXHAUST AND OTHER ITEMS.
10. MOUNT 2 FEET BELOW ROOF STRUCTURE. PROVIDE WITH MOTION SENSOR (WATTSTOPPER EW-200-120-G OR APPROVED EQUAL) AND INTEGRAL PHOTOCELL. SEE DETAIL 4/E4 FOR CONTROL DIAGRAM.
11. PROVIDE SLACK LOOP ADEQUATE TO ACCOMMODATE MOVEMENT OF 12 INCHES IN ANY DIRECTION WHEN TRANSITIONING TO UNDERGROUND CONDUIT.
12. PENETRATIONS THROUGH EXTERIOR WALL SHALL BE BELOW SERVED EQUIPMENT.



SEE SHEET E1 FOR LIGHTING FIXTURE SCHEDULE

1 E2 **LIGHTING PLAN** 1/8" = 1'-0"



2 E2 **INTERIOR ELEVATION** 1/8" = 1'-0"

4' 0 4' 8' 12'

GRAPHIC SCALE: 1/8" = 1'-0"

SREB GENERAL NOTES:

1. THE WORK SHOWN ON THIS DRAWING IS APPLICABLE TO SREB #1 AND TO SREB #2.

AS-BUILT
3/1/18
Project Engineer Date
Hooper Bay Airport Improvements 57419

STATE OF ALASKA 49TH
MICHAEL J. LOVE
4/3/2015
CE-0010
REGISTERED PROFESSIONAL ENGINEER

PLAN PREPARED BY MBA CONSULTING ENGINEERS, INC.

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION

HOOPER BAY AIRPORT
HOOPER BAY, ALASKA
SNOW REMOVAL EQUIPMENT BUILDING
AIP_NUMBER: 3-02-0126-006-2014
ELECTRICAL LIGHTING PLAN

DATE: 4/3/2015
SHEET: E2 OF E4
AS-BUILT SHEET:

Designed By: KSLP
Drawn By:
Checked By: DCH

Date Revised:
Layout Name: Layout1
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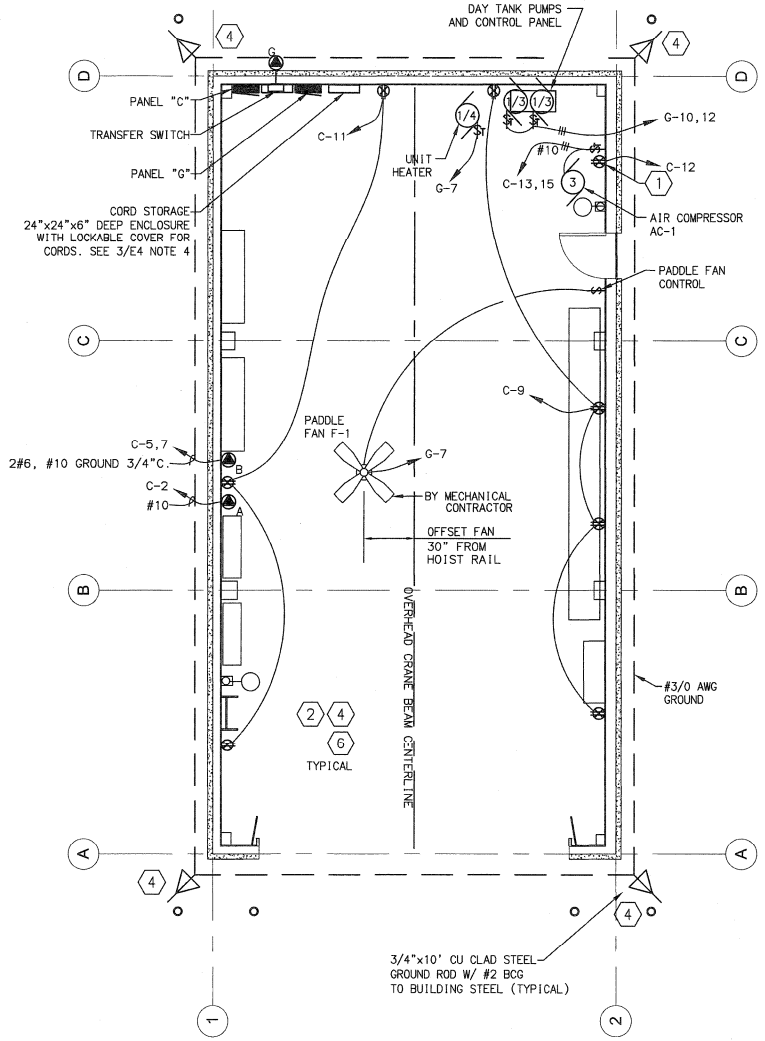
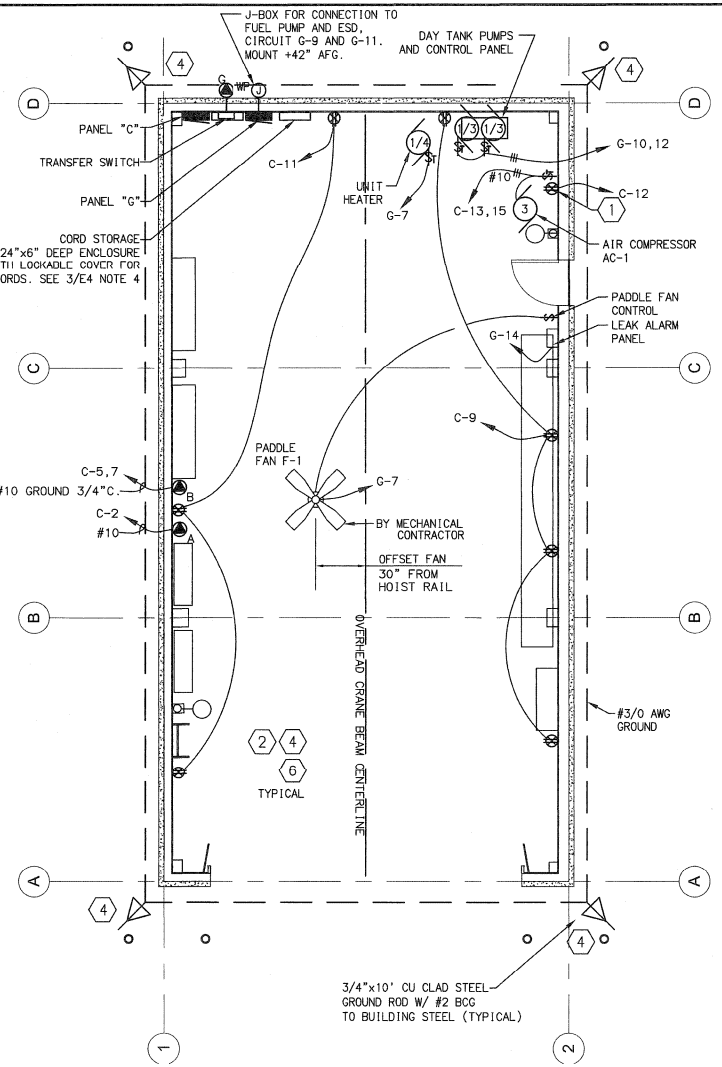


1/E3 POWER PLAN - SREB #2
1/8" = 1'-0"

NOTES:
1. SEE ELECTRICAL NOTES FOR THIS DETAIL ON SHEET E2.
2. REFER TO AIRPORT LIGHTING SHEETS FOR METER PANEL LOCATION AND DETAIL.



2/E3 POWER PLAN - SREB #1
1/8" = 1'-0"

NOTES:
1. SEE ELECTRICAL NOTES FOR THIS DETAIL ON SHEET E2.
2. REFER TO AIRPORT LIGHTING SHEETS FOR METER PANEL LOCATION AND DETAIL.

AS-BUILT
3/1/18
Project Engineer Date
Hooper Bay Airport Improvements 57419

4' 0 4' 8' 12'
GRAPHIC SCALE: 1/8" = 1'-0"

STATE OF ALASKA 49TH
MICHAEL J. LOVE 4/3/2015 REGISTERED PROFESSIONAL ENGINEER

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION

HOOPER BAY AIRPORT
HOOPER BAY, ALASKA
SNOW REMOVAL EQUIPMENT BUILDING
AIP NUMBER: 3-02-0126-006-2014

ELECTRICAL POWER PLAN & DETAILS

DATE: 4/3/2015
SHEET: E3 OF E4
AS-BUILT SHEET:

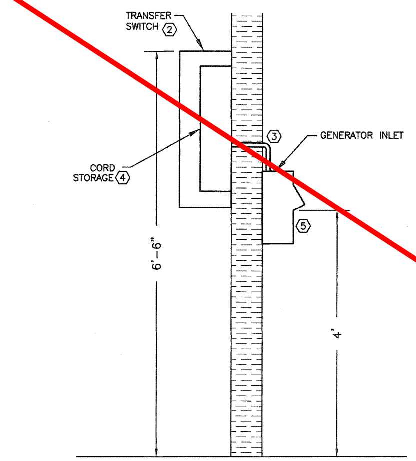
PLAN PREPARED BY MBA CONSULTING ENGINEERS, INC.

Designed By: KSLP
Drawn By: DCH
Checked By:
Date Revised:
Layout Name: Layout1
File Path and Name: Z:\1401-HBS - Hooper Bay, SREB_Working\Drawings\1401A_E3.dwg
3/12/2015, 11:20 AM

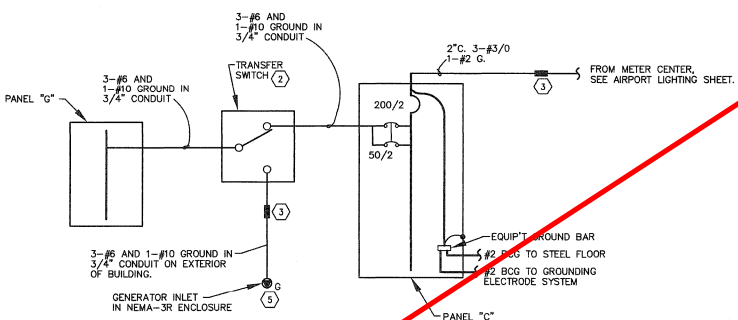
DETAIL NOTES:

1. NOT USED.
2. 60-AMP 250-VOLT NON-FUSED TWO-POLE DOUBLE-THROW TRANSFER SWITCH, SQUARE-D CATALOG NO. DTU222 OR APPROVED EQUAL.
3. SEAL CONDUIT PENETRATION ON INSIDE AND OUTSIDE BETWEEN THE INTERIOR AND EXTERIOR OF THE BUILDING WITH DUX SEAL.
4. PROVIDE A 20-FOOT "ARCTIC" POWER CORD CONTAINING THREE #8 AWG POWER CONDUCTORS AND ONE #10 AWG GROUND CONDUCTOR WITH A CS63-64C* CONNECTOR ON ONE END AND A CS63-65C* PLUG ON THE OTHER. PROVIDE THE FOLLOWING 36-INCH LONG ADAPTER CORDS.
   - (A) 1-4C #10 POWER CORD WITH A CS63-64C* CONNECTOR ON ONE END AND A NEMA-L14-30 PLUG ON THE OTHER.
   - (B) 1-4C #12 POWER CORD WITH A CS63-64C* CONNECTOR ON ONE END AND A NEMA-L14-20 PLUG ON THE OTHER. PROVIDE WALL CABINET NEXT TO PANEL-G TO STORE THE CORDS.
5. MOUNT A CS63-75C* (MALE) GENERATOR FLANGED INLET IN A NEMA-3R GALVANIZED/PAINTED ENCLOSURE WITH THE INLET 48 INCHES ABOVE THE FLOOR LEVEL – MIDWEST ELECTRIC PRODUCTS CAT. NO. U050N OR APPROVED EQUAL. (OTHER ACCEPTED MANUFACTURERS – GE, CROUSE-HINDS).

* CALIFORNIA STANDARD 125/250-VOLT, 3-POLE, 4-WIRE, NON-NEMA, 50-AMP WIRING DEVICE, LEVITON CATALOG # AS SHOWN, OR APPROVED EQUAL. (OTHER ACCEPTED MANUFACTURERS – CROUSE-HINDS, APPLETON).

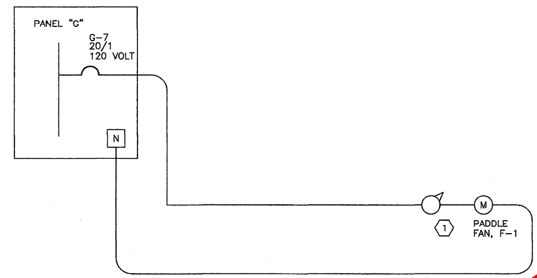


3 / E4 **PANEL "G" - GENERATOR INLET ELEVATION**
NTS



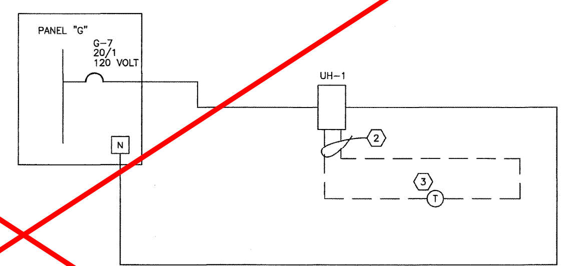
4 / E4 **POWER ONE LINE DIAGRAM**
NTS

NOTE: REFER TO AIRPORT LIGHTING SHEETS FOR METER PANEL LOCATION AND DETAIL.



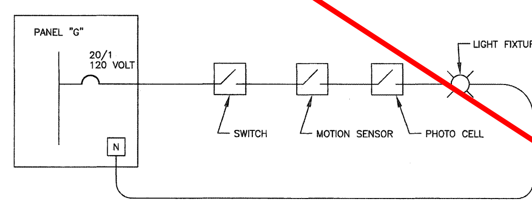
1 / E4 **PADDLE FAN CONTROL DIAGRAM**
NTS

NOTES:
1. ELECTRONIC SPEED CONTROL – SUPPLIED OR RECOMMENDED BY THE PADDLE FAN MANUFACTURER.



2 / E4 **HEATING CONTROL WIRING DIAGRAM**
NTS

NOTES:
1. NOT USED.
2. THERMOSTAT WIRE – CAN RUN EXPOSED BUT MUST BE STAPLED TO WAINSCOT 24 INCHES O.C.
3. THERMOSTAT FOR UNIT HEATER – NON MERCURY TYPE.



5 / E4 **EXTERIOR LIGHTING CONTROL DIAGRAM**
NTS

SREB GENERAL NOTES:
1. THE WORK SHOWN ON DETAILS 1/E4 AND 2/E4 IS APPLICABLE TO THE HEATED BUILDING, SREB #1.
2. THE WORK SHOWN ON DETAILS 3/E4, 4/E4 AND 5/E4 IS APPLICABLE TO THE HEATED BUILDING, SREB #1 AND TO THE UNHEATED BUILDING, SREB #2.

AS-BUILT
Project Engineer 3/1/18 Date
Hooper Bay Airport Improvements 57419

STATE OF ALASKA · 49TH · MICHAEL J. LOVE · 4/3/2015 · EE-5818 · REGISTERED PROFESSIONAL ENGINEER

Date Revised: 3/12/2015, 11:22 AM
Layout Name: Power (3)
File Path and Name: Z:\14014HBS – Hooper Bay SREB\E-Working\Drawings\14014_E4.dwg
Designed By: KSLP
Drawn By: DCH
Checked By:

BY	DATE	REVISION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION

HOOPER BAY AIRPORT
HOOPER BAY, ALASKA
SNOW REMOVAL EQUIPMENT BUILDING
AIP_NUMBER: 3-02-0126-006-2014
HEAT CONTROLS & POWER DETAILS

DATE: 4/3/2015
SHEET: E4 OF E4
AS-BUILT SHEET:

PLAN PREPARED BY MBA CONSULTING ENGINEERS, INC.

DETAIL NOTES:

(1) NOT USED.

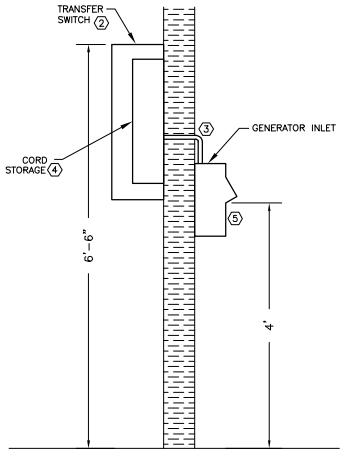
(2) 60-AMP 250-VOLT NON-FUSED TWO-POLE DOUBLE-THROW TRANSFER SWITCH, SQUARE-D CATALOG NO. DTU222 OR APPROVED EQUAL.

(3) SEAL CONDUIT PENETRATION ON INSIDE AND OUTSIDE BETWEEN THE INTERIOR AND EXTERIOR OF THE BUILDING WITH DUX SEAL.

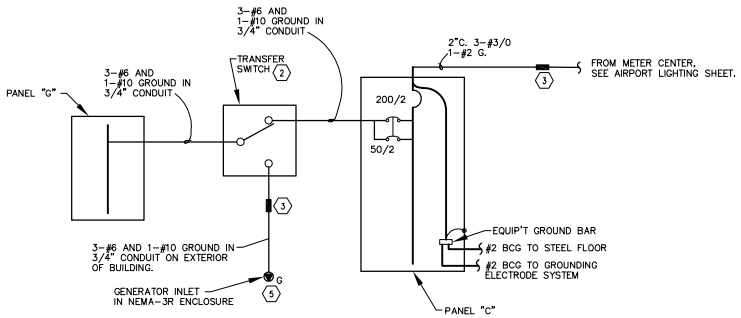
(4) PROVIDE A 20-FOOT "ARCTIC" POWER CORD CONTAINING THREE #8 AWG POWER CONDUCTORS AND ONE #10 AWG GROUND CONDUCTOR WITH A CS63-64C* CONNECTOR ON ONE END AND A CS63-65C* PLUG ON THE OTHER. PROVIDE THE FOLLOWING 36-INCH LONG ADAPTER CORDS.
- (A) 1-4C #10 POWER CORD WITH A CS63-64C* CONNECTOR ON ONE END AND A NEMA-L14-30 PLUG ON THE OTHER.
- (B) 1-4C #12 POWER CORD WITH A CS63-64C* CONNECTOR ON ONE END AND A NEMA-L14-20 PLUG ON THE OTHER. PROVIDE WALL CABINET NEXT TO PANEL-G TO STORE THE CORDS.

(5) MOUNT A CS63-75C* (MALE) GENERATOR FLANGED INLET IN A NEMA-3R GALVANIZED/PAINTED ENCLOSURE WITH THE INLET 48 INCHES ABOVE THE FLOOR LEVEL - MIDWEST ELECTRIC PRODUCTS CAT. NO. U050N OR APPROVED EQUAL. (OTHER ACCEPTED MANUFACTURERS - GE, CROUSE-HINDS).

* CALIFORNIA STANDARD 125/250-VOLT, 3-POLE, 4-WIRE, NON-NEMA, 50-AMP WIRING DEVICE, LEVITON CATALOG # AS SHOWN, OR APPROVED EQUAL. (OTHER ACCEPTED MANUFACTURERS - CROUSE-HINDS, APPLETON).

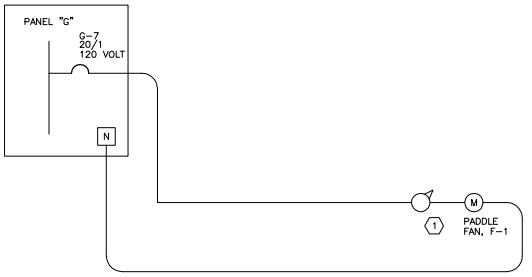


3 / E4 **PANEL "G" - GENERATOR INLET ELEVATION** NTS



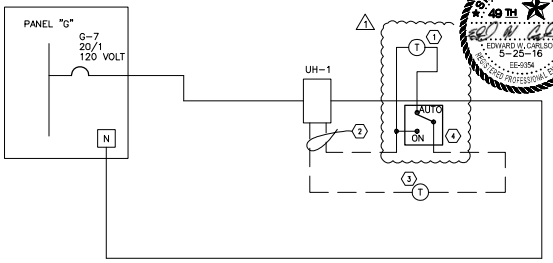
4 / E4 **POWER ONE LINE DIAGRAM** NTS

NOTE: REFER TO AIRPORT LIGHTING SHEETS FOR METER PANEL LOCATION AND DETAIL.



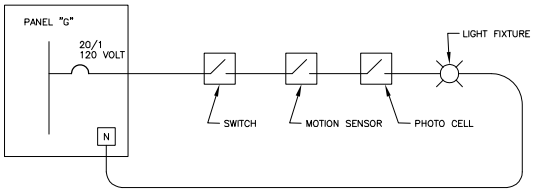
1 / E4 **PADDLE FAN CONTROL DIAGRAM** NTS

NOTES:
(1) ELECTRONIC SPEED CONTROL - SUPPLIED OR RECOMMENDED BY THE PADDLE FAN MANUFACTURER.



2 / E4 **HEATING CONTROL WIRING DIAGRAM** NTS

NOTES:
(1) EXTERIOR THERMOSTAT SET TO CLOSE CONTACTS WHEN BELOW 50°F. HONEYWELL T775 SERIES 2000 CONTROLLER WITH T775-SENS-OAT TEMPERATURE SENSOR OR AS APPROVED
(2) THERMOSTAT WIRE - CAN RUN EXPOSED BUT MUST BE STAPLED TO WAINSCOT 24 INCHES O.C.
(3) THERMOSTAT FOR UNIT HEATER - NON MERCURY TYPE.
(4) KEYED (AUTO - ON) SWITCH (SHOWN IN AUTO POSITION), KEY THE SAME AS THE RECEPTACLE HOA SWITCH



5 / E4 **EXTERIOR LIGHTING CONTROL DIAGRAM** NTS

SREB GENERAL NOTES:

~~1. THE WORK SHOWN ON DETAILS 1/E4 AND 2/E4 IS APPLICABLE TO THE HEATED BUILDING, SREB #1.~~

~~2. THE WORK SHOWN ON DETAILS 3/E4, 4/E4 AND 5/E4 IS APPLICABLE TO THE HEATED BUILDING, SREB #1 AND TO THE UNHEATED BUILDING, SREB #2.~~

AS-BUILT
3/1/18
Project Engineer Date
Hooper Bay Airport Improvements 57419

STATE OF ALASKA 49TH MICHAEL J. LOVE 4/3/2015 ES-5818 REGISTERED PROFESSIONAL ENGINEER

BY	DATE	REVISION
EWC	5-24-16	1 UNIT HEATER CONTROL

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
CENTRAL REGION

HOOPER BAY AIRPORT
HOOPER BAY, ALASKA
SNOW REMOVAL EQUIPMENT BUILDING
AIP_NUMBER: 3-02-0126-006-2014
HEAT CONTROLS & POWER DETAILS

DATE: 4/3/2015
SHEET: E4 OF E4
AS-BUILT SHEET:

PLAN PREPARED BY MBA CONSULTING ENGINEERS, INC.

Date Revised:
Layout Name: Power (3)
File Path and Name: Z:\14014MBS - Hooper Bay, SREB\E-Working\Drawings\14014_E4.dwg
3/12/2015, 11:22 AM
Designed By: KSLP
Drawn By:
Checked By: TDH